

# RE-THINKING 911 & NON-TRADITIONAL CONNECTIVITY

**Michael Armitage**

Director – Eaton County Central Dispatch

**Matt Groesser**

Emergency Communications Center Manager – Kent County Sheriff's Office

**Matt McConnon**

Operations Manager – West Michigan Transportation Operations Center

# TRAFFIC

Websites for enhanced situational awareness:

Google Maps

MI Drive

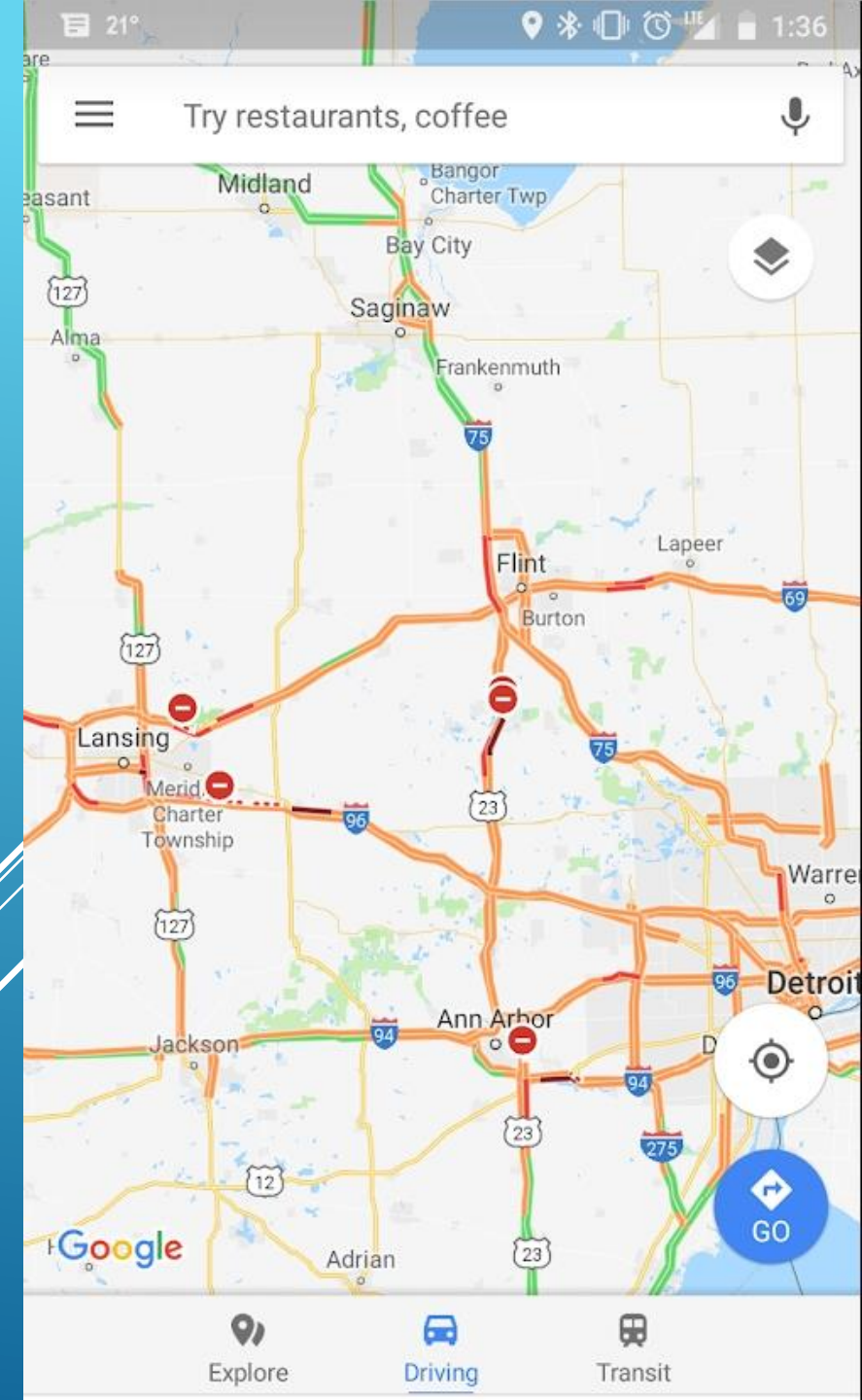
Claris

# TRAFFIC

Websites for enhanced situational awareness:

Google Maps

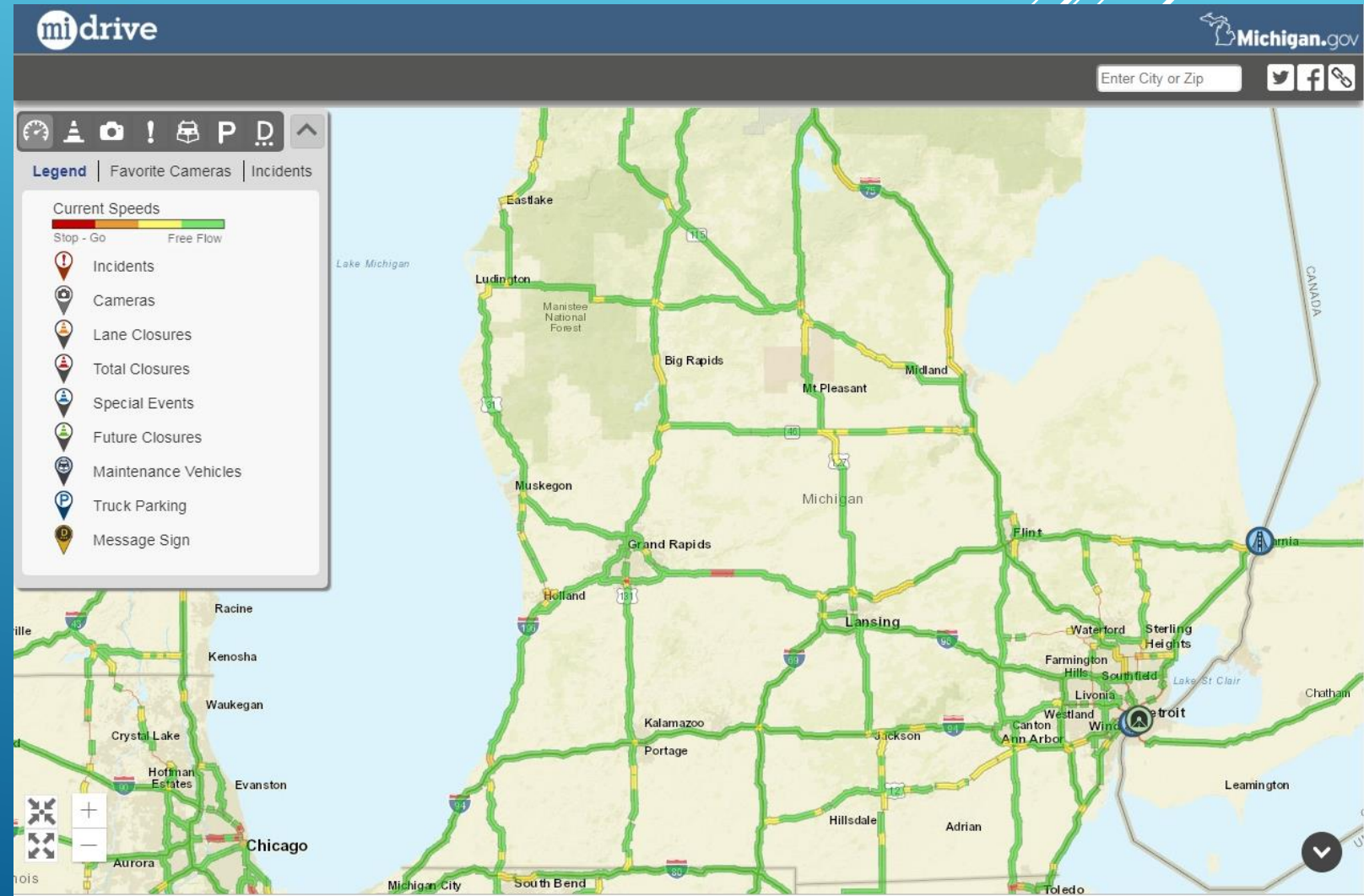
<https://www.google.com/maps/>



# TRAFFIC

Websites for enhanced situational awareness:

MI Drive



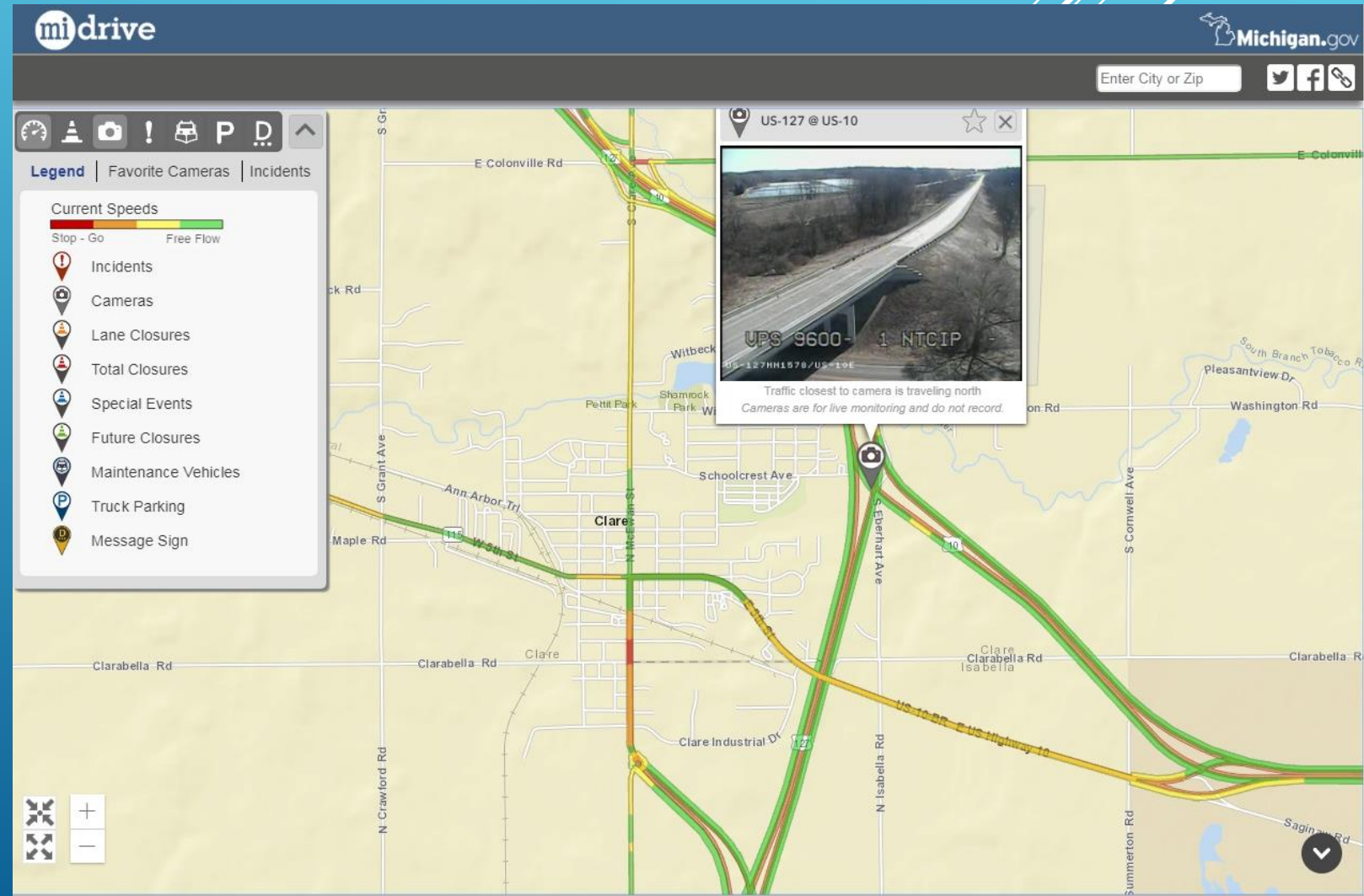
<https://mi.gov/drive>



# TRAFFIC

Websites for enhanced situational awareness:

MI Drive



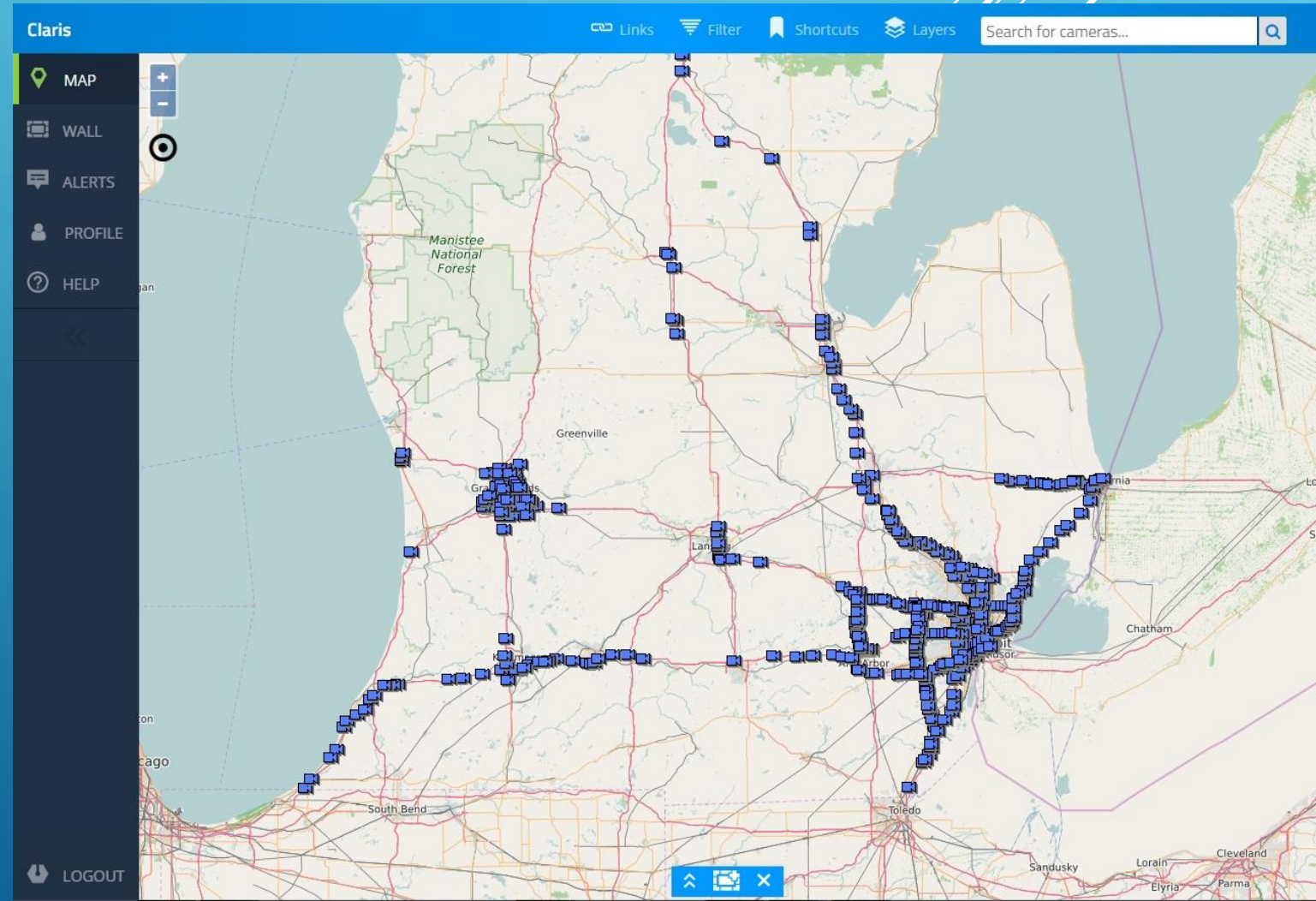
<https://mi.gov/drive>

# TRAFFIC

Websites for enhanced situational awareness:

Claris

For access to Claris, contact your regional MDOT Traffic Operations Center

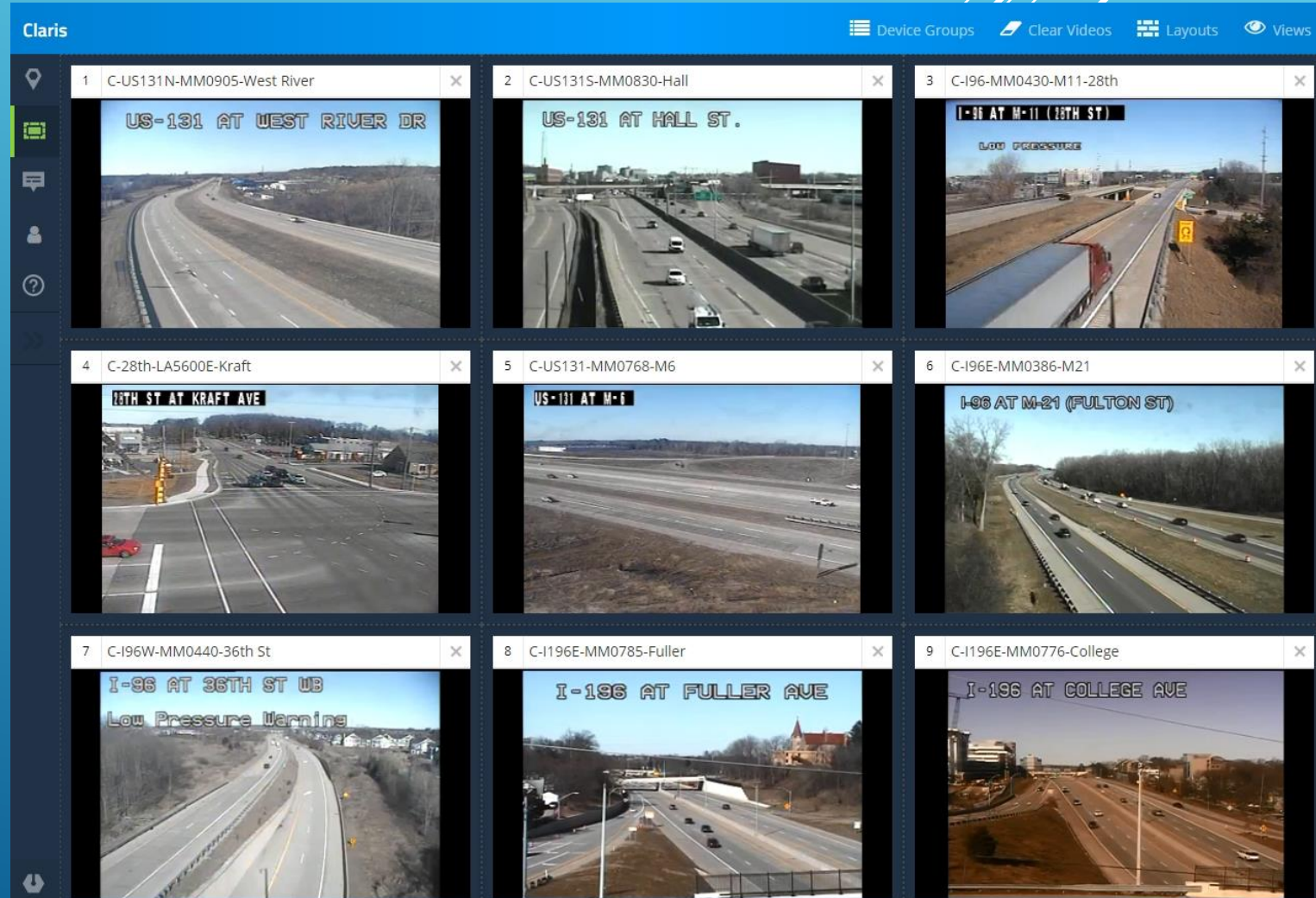




# TRAFFIC

Websites for enhanced situational awareness:

Claris



# TRAFFIC

Websites for enhanced situational awareness:

Claris





# TRAFFIC

## 911 Data Shared with Public:

Kent County 911 Traffic Map

Eaton County 911 Traffic Map

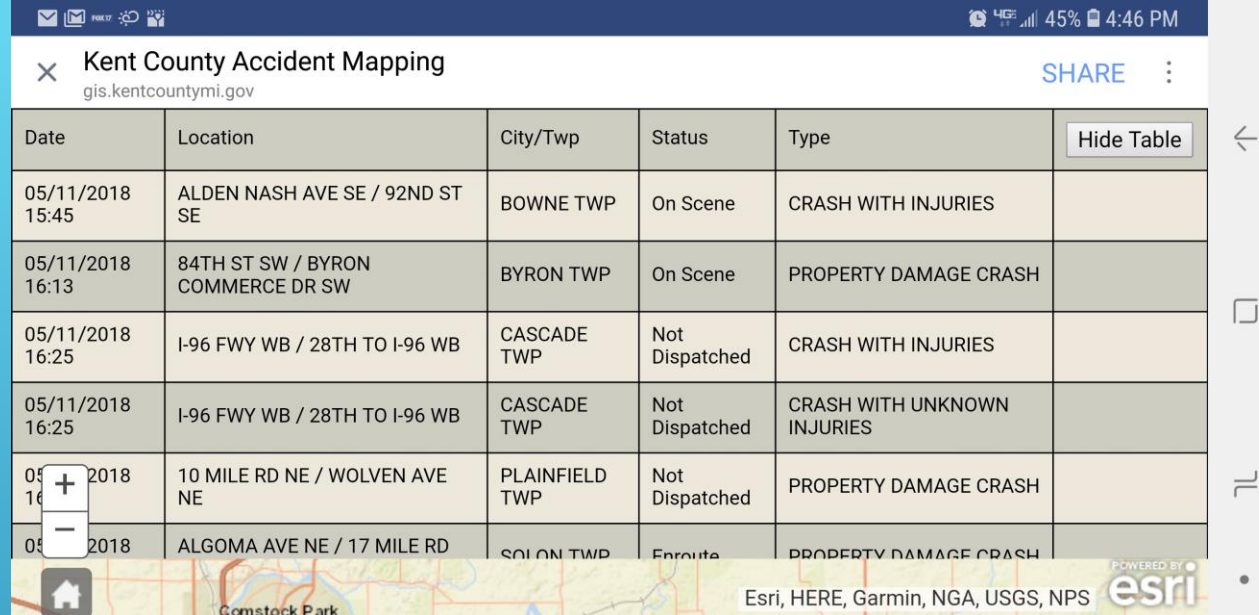
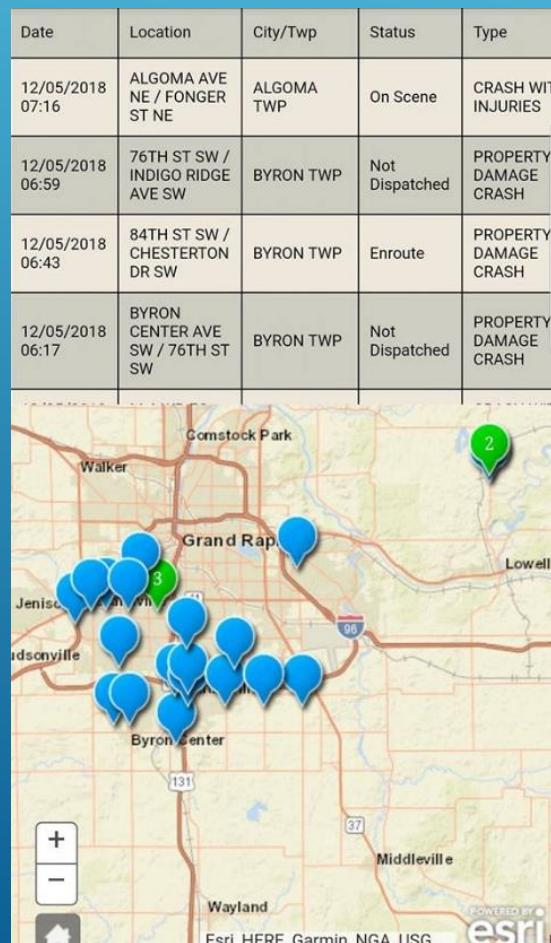
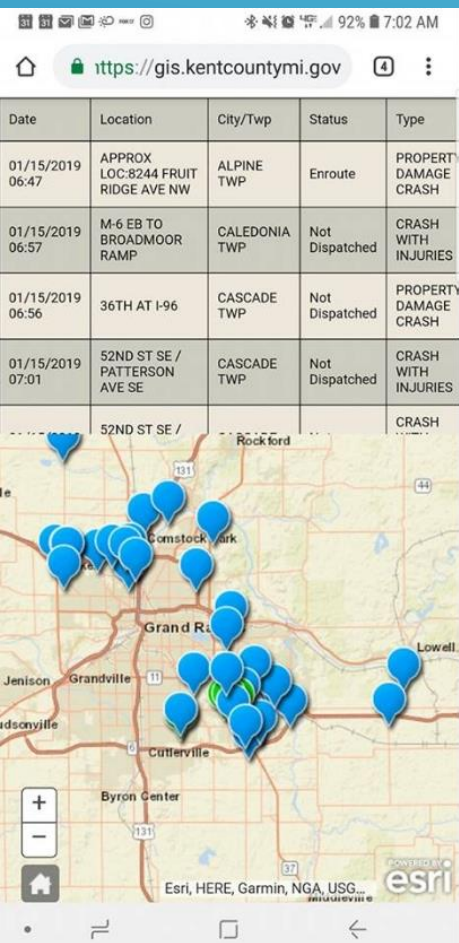
Data feed from Kent County 911 to MDOT

Ionia County Active 911 Notifications to MDOT

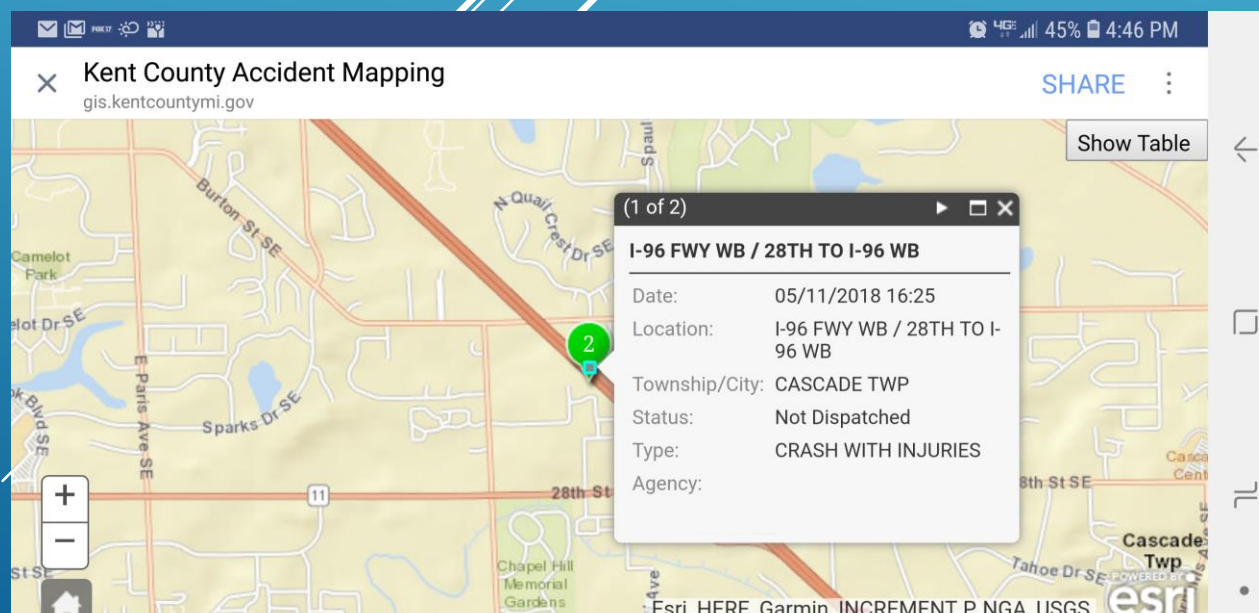
# TRAFFIC

## 911 Data Shared with Public:

### Kent County 911 Traffic Map



<https://www.accesskent.com/traffic>

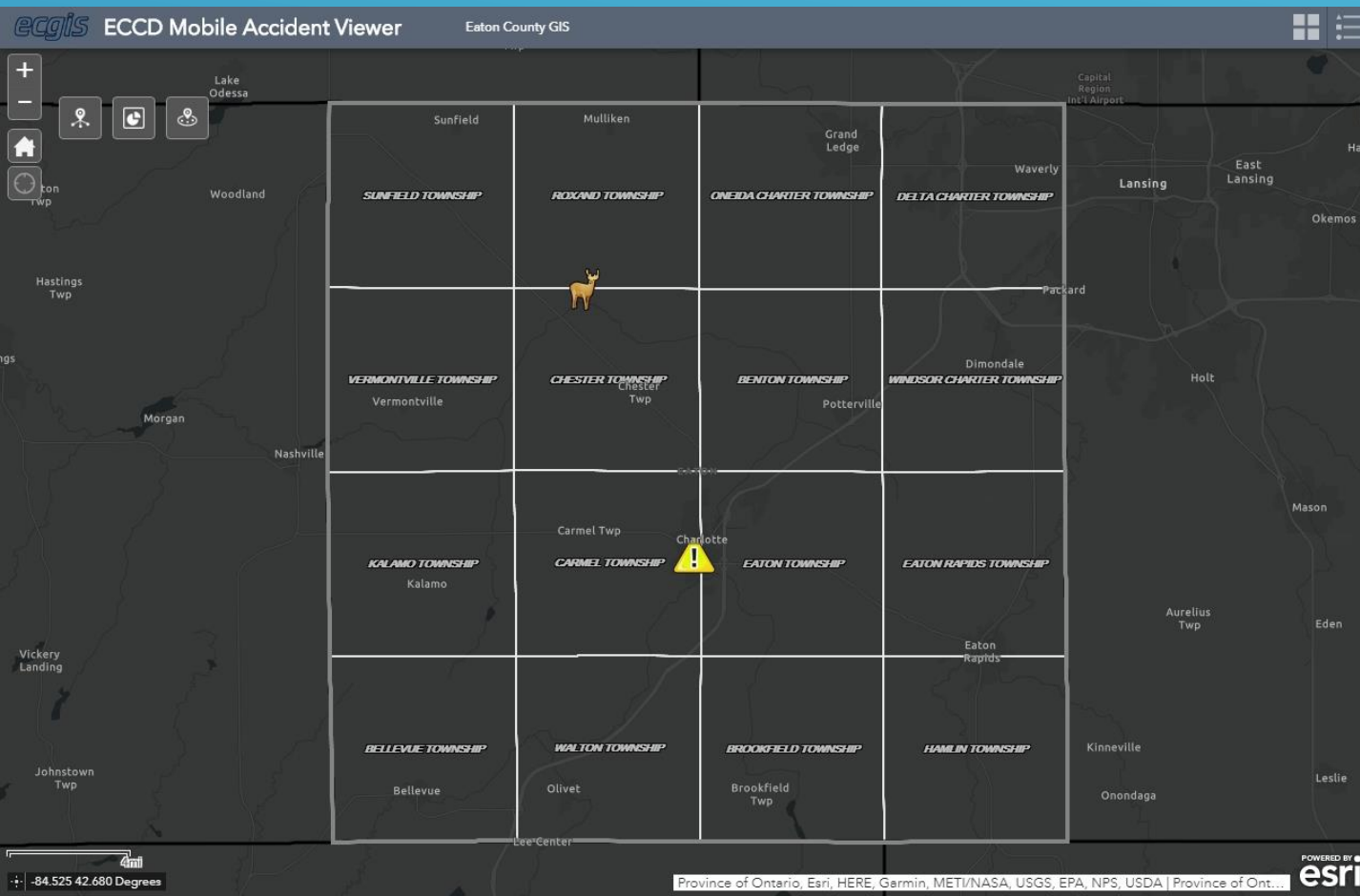


# TRAFFIC

[geo.eatoncounty.org/accidents](http://geo.eatoncounty.org/accidents)

911 Data Shared with Public:

## Eaton County 911 Traffic Map

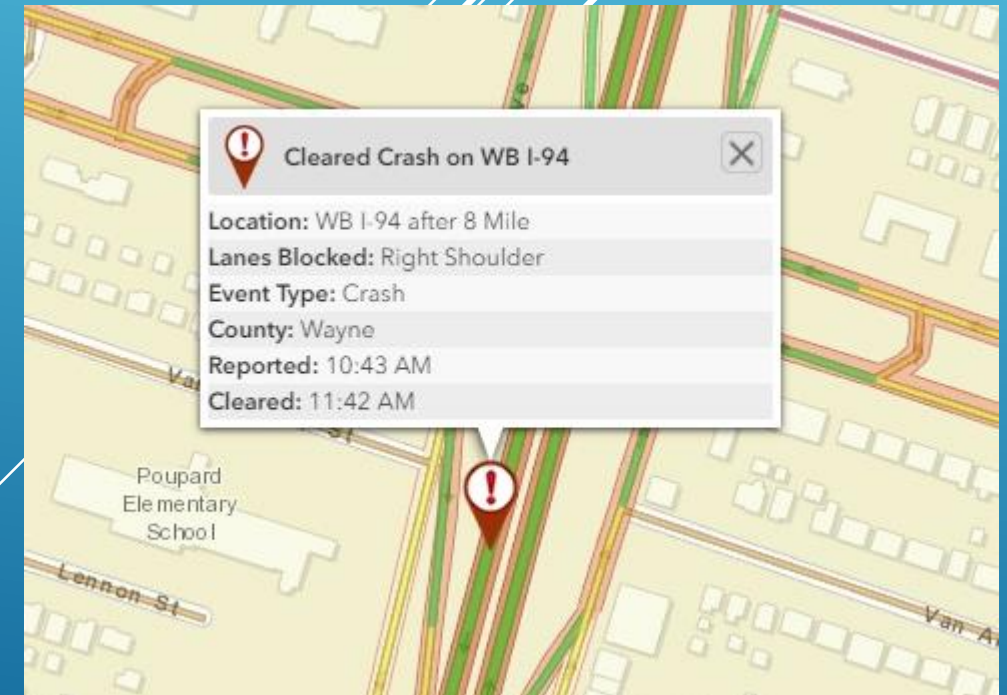
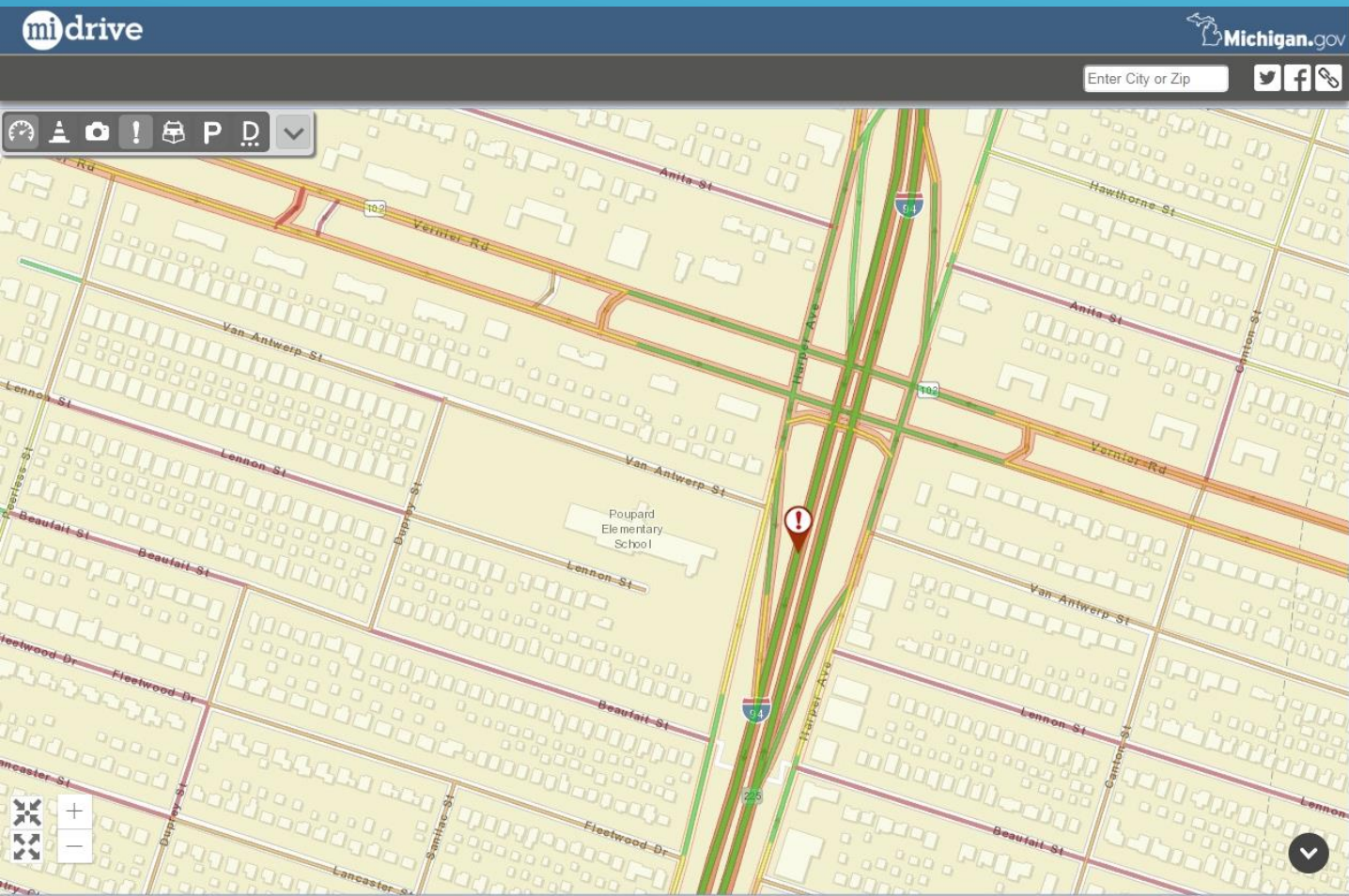




# TRAFFIC

911 Data Shared with Public:

Data feed from Kent County 911 to MDOT



# TRAFFIC

## 911 Data Shared with Public:

### Ionia County Active 911 Notifications to MDOT

COUNTY WIDE

LIFE SOUTH ZONE

SARANAC FIRE ZONE

Cross Streets : MM 57 RD \* MM 58 RD

EB9657MM

GPS: 42.87840, -85.27880

CALL:PIA TRAFFIC ALL

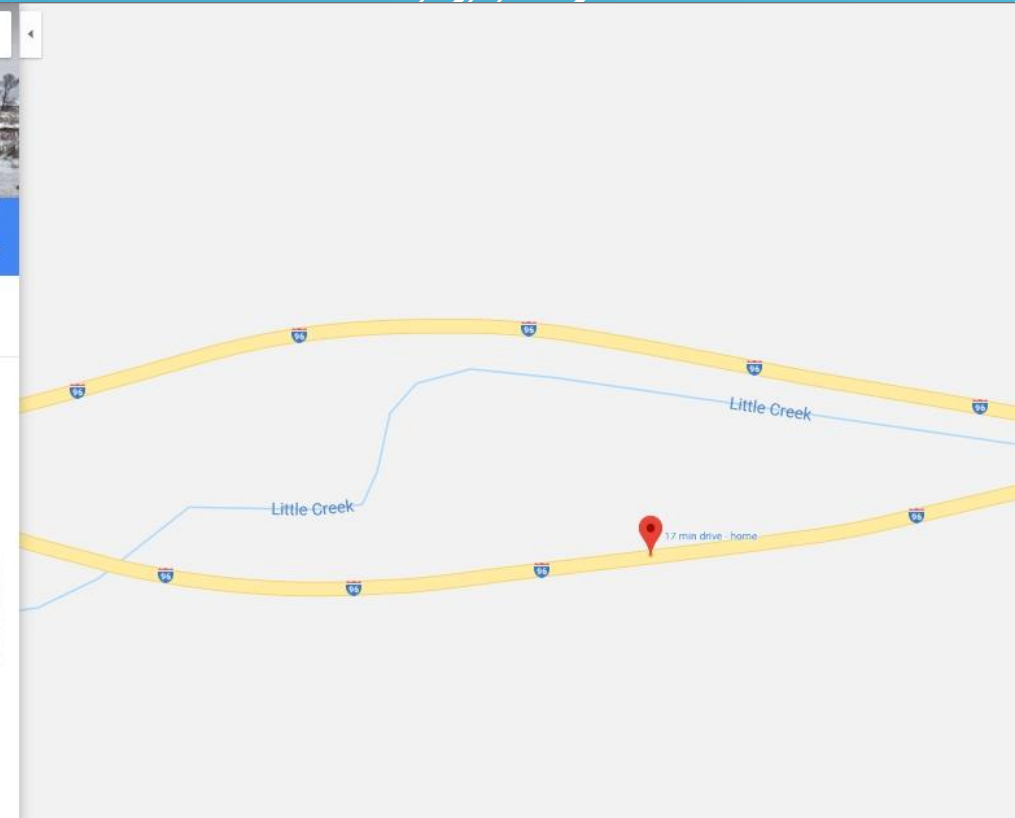
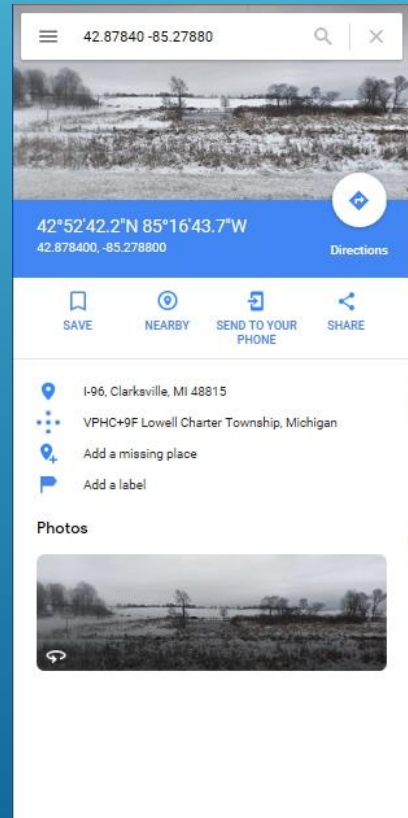
DST:MI

CITY:Ionia County

ADDR:E I 96 HWY [CLARKSVIL] AND MM 57

DATE:1549734284

Active911#:156388018



# EMERGENCY MANAGEMENT

Websites/Apps for enhanced situational awareness:

FlightRadar24

LiveATC

Tier II

Consumers Energy Outage Map



# EMERGENCY MANAGEMENT

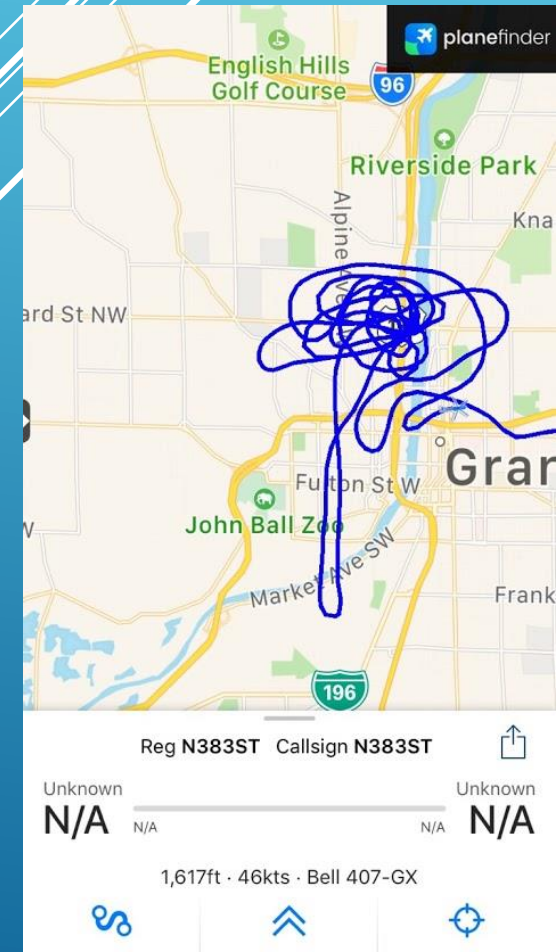
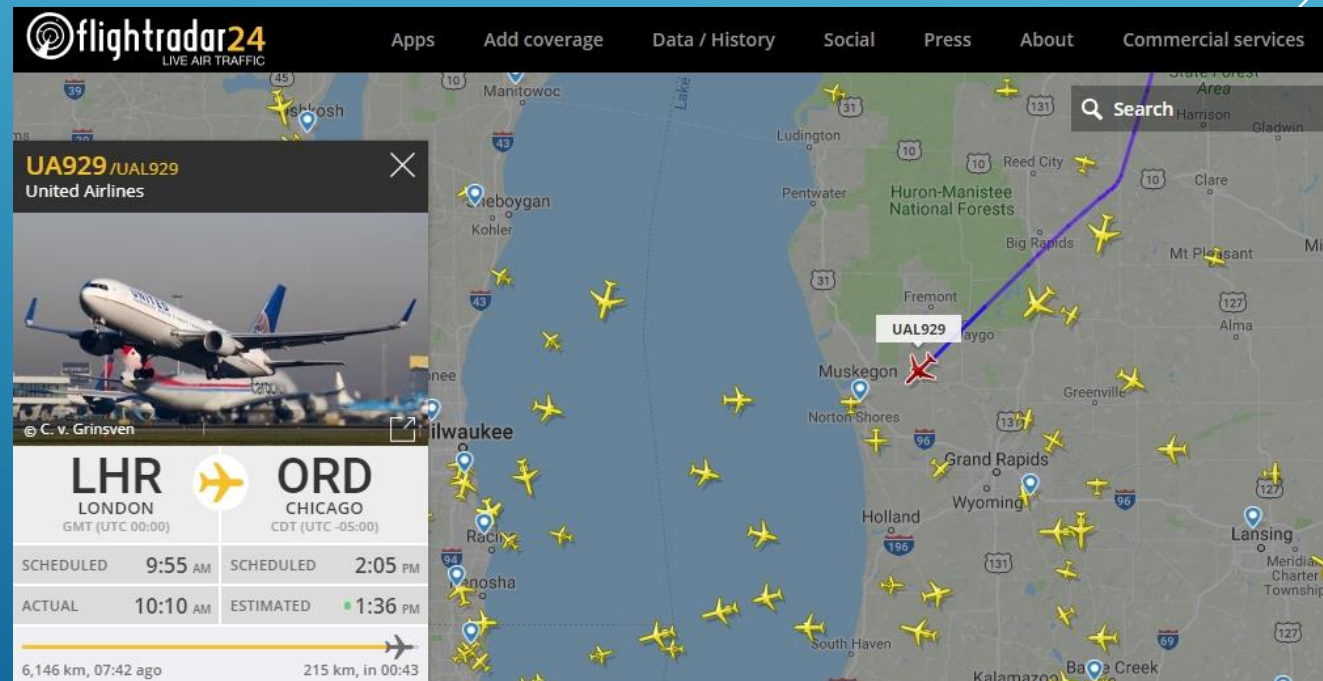
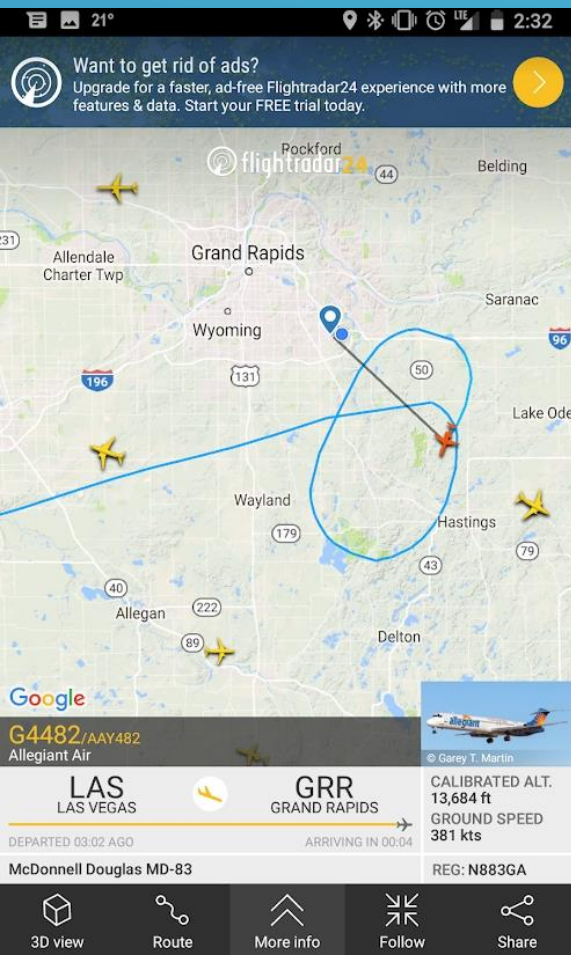
<https://www.flightradar24.com/>

<https://planefinder.net/>

Websites/Apps for enhanced situational awareness:

FlightRadar24

PlaneFinder



# EMERGENCY MANAGEMENT

<https://www.liveatc.net>

Websites/Apps for enhanced situational awareness:

## LiveATC



Live Air Traffic — From Their Headsets to You.

**Find LiveATC Audio Streams**

**Airport/ARTCC Code**

**Frequency Search**  
 **Q**

(e.g., 124.400, 128.75)

**Site-wide search**

**Browse LiveATC Feeds**  
Top 50 LiveATC Feeds  
LiveATC Feed Map  
Bad Weather Areas

**LiveATC FAQ**  
Offer LiveATC feed  
Contact LiveATC.net  
Press Inquiries

**LiveATC on iPhone**  
**LiveATC on Android**

**Windows Phone**  
Windows 8/10

**LiveATC Mobile**  
(Mobile browser)

**ATC Audio Archives**  
Interesting Recordings

**LiveATC Forums**  
Twitter | Facebook

[Home Page](#)  
[About LiveATC.net](#)

**ICAO: KGRR IATA: GRR Airport: Gerald R. Ford International Airport**  
**City: Grand Rapids State/Province: Michigan**  
**Country: United States Continent: North America**  
**KGRR METAR Weather:** KGRR 251653Z 07009KT 10SM FEW200 04/M10 A3028 RMK AO2  
**KGRR Flight Activity** (FlightAware)  
**KGRR Airport Info** (iFlightPlanner)  
**KGRR VFR Sectional Chart** (iFlightPlanner)  
**KGRR IFR Low Chart** (iFlightPlanner)

**KGRR App/Dep**  
**Feed Status: UP** Listeners: 0  
**LISTEN** (in browser, HTML5)  
**LISTEN** (launches your MP3 player)  
**LISTEN** (Windows Media Player)  
**KGRR App/Dep Audio Archives**

Facility	Frequency
Grand Rapids Approach (North)	124.600
Grand Rapids Approach (South)	128.400

**KGRR App/Dep (North)**  
**Feed Status: UP** Listeners: 0  
**LISTEN** (in browser, HTML5)  
**LISTEN** (launches your MP3 player)  
**LISTEN** (Windows Media Player)  
**KGRR App/Dep (North) Audio Archives**

Facility	Frequency
Grand Rapids Approach (North)	124.600

**KGRR App/Dep (South)**  
**Feed Status: UP** Listeners: 0  
**LISTEN** (in browser, HTML5)  
**LISTEN** (launches your MP3 player)  
**LISTEN** (Windows Media Player)  
**KGRR App/Dep (South) Audio Archives**

Facility	Frequency
Grand Rapids Approach (South)	128.400

 [https://www.liveatc.net/hlisten.php?mount=kgrr2\\_2\\_app&icao=kgrr](https://www.liveatc.net/hlisten.php?mount=kgrr2_2_app&icao=kgrr)

**You are listening to:**  
**KGRR App/Dep - Grand Rapids, Michigan, United States**

KGRR 251653Z 07009KT 10SM FEW200 04/M10 A3028 RMK AO2 SLP262 T00391100

**Ad c**

 **00:04**  

**If stream does not start automatically press the play button**



# EMERGENCY MANAGEMENT

Websites/Apps for enhanced situational awareness:

## Tier II

<http://www.deq.state.mi.us/tier2manager/Account/Login.aspx>

**SARA Title II**  
Michigan SARA Title III Program  
Department of Environmental Quality  
PO Box 30457, Lansing, MI 48909-7957  
Phone : 517-284-7272, Fax :

**Online TIER II MANAGER™**  
Welcome Matt, County of Kent, Last Login: 03/25/2019, 02:00 PM  
Jurisdiction Program User Log Out  
DEQ Department of Environmental Quality Michigan.gov

Layers Legend List Facilities Facility Details

Hazard Reports List Facilities MSDS/SDS Resources List Plans Advanced Reports Update My Profile Offline

4460 44th St SE Suite F (MI SARA ID: 22553)  
4460 44th St SE Suite F, Kentwood, MI 49512-4096, United States  
Status: Active Type: Facility

Emergency Contact: Zach Detweiler 24 Hr Phone: [REDACTED]  
Emergency Contact: Dan Bullard 24 Hr Phone: [REDACTED]  
Compliance Contact: Zach Detweiler 24 Hr Phone: [REDACTED]

Chemicals Facility/ Report Map Site At-Risk Sites At-Risk Population Plan Details

Worst Case VZone

**Regulatory Reports**

Tier II Report (312 Annual Report)

Report ID	Report	Status	Signed By	Signed Date	Submission Type	View
223097	2018 Tier II Report Annual Revision	Completed	Zach Detweiler	03/07/2019 02:49:15 PM	Online	[Icon]
223093	2018 Tier II Report Annual Revision	Completed	Zach Detweiler	03/07/2019 02:33:37 PM	Online	[Icon]
217979	2018 Tier II Report Annual	Completed	Zach Detweiler	03/07/2019 09:19:43 AM	Online	[Icon]

302 Reports (EHS Notification)

## Hazards Analysis

CAS NO	TPQ Value	Maximum Daily Amount	Maximum Daily Amount Unit	Chemical Name	Most Probable ERPG3	Most Probable ERPG2	Worst Case ERPG3	Worst Case ERPG2
7697372	1000	1	lbs	Nitric acid				
7664939	1000	1	lbs	Sulfuric acid				

Total Results:2 Rows per page 25

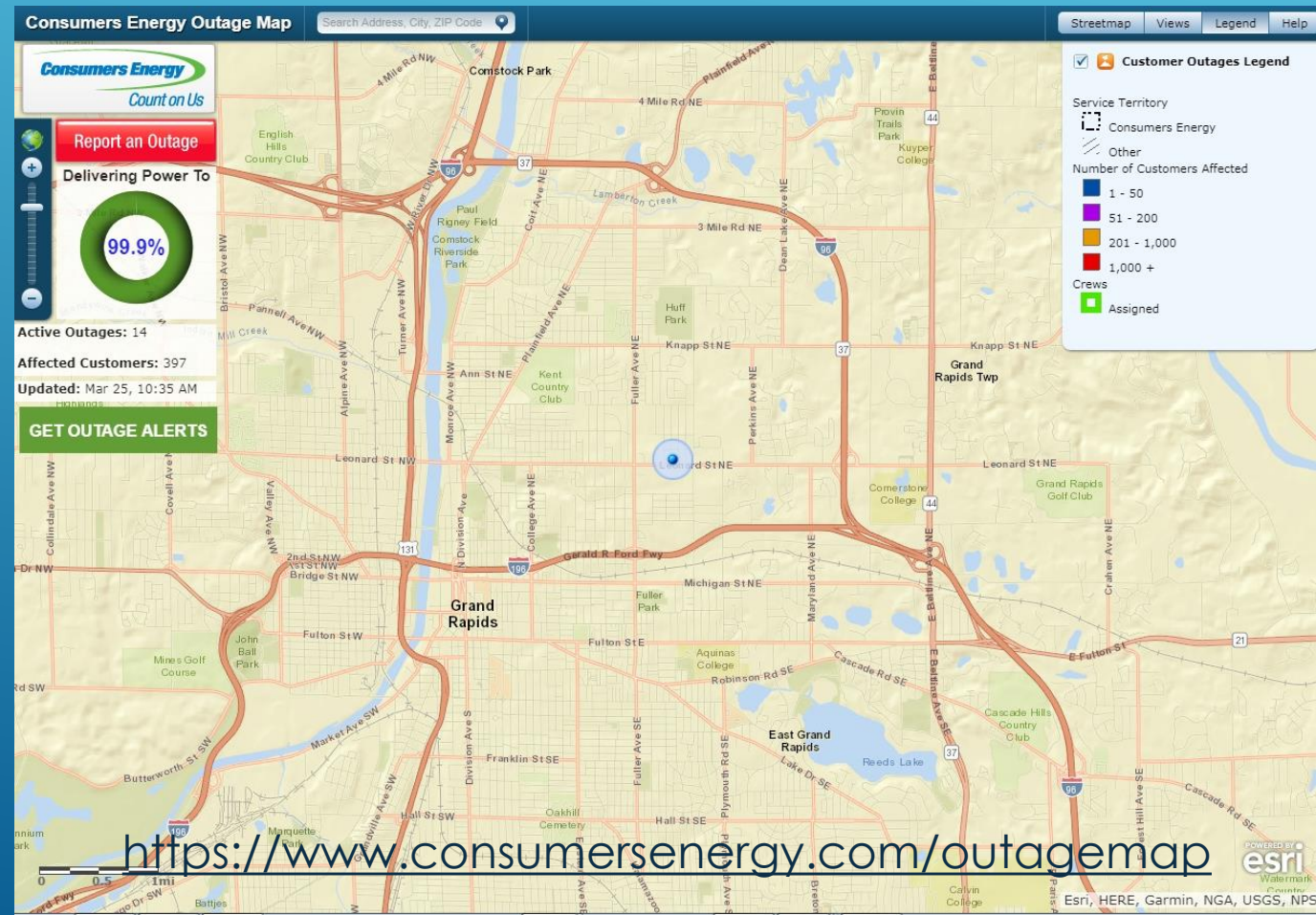
Back



# EMERGENCY MANAGEMENT

Websites/Apps for enhanced situational awareness:

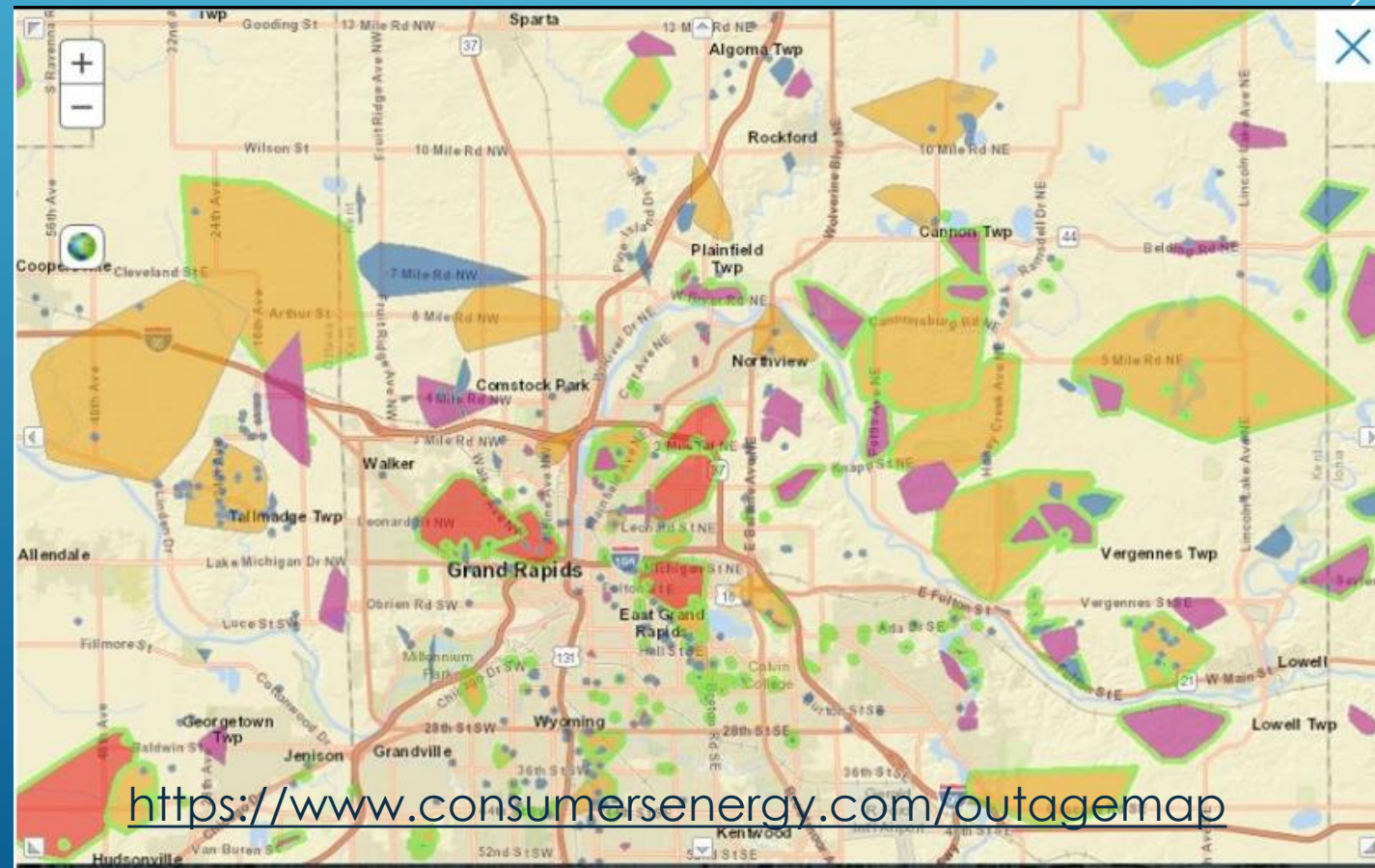
## Consumers Energy Outage Map



# EMERGENCY MANAGEMENT

Websites/Apps for enhanced situational awareness:

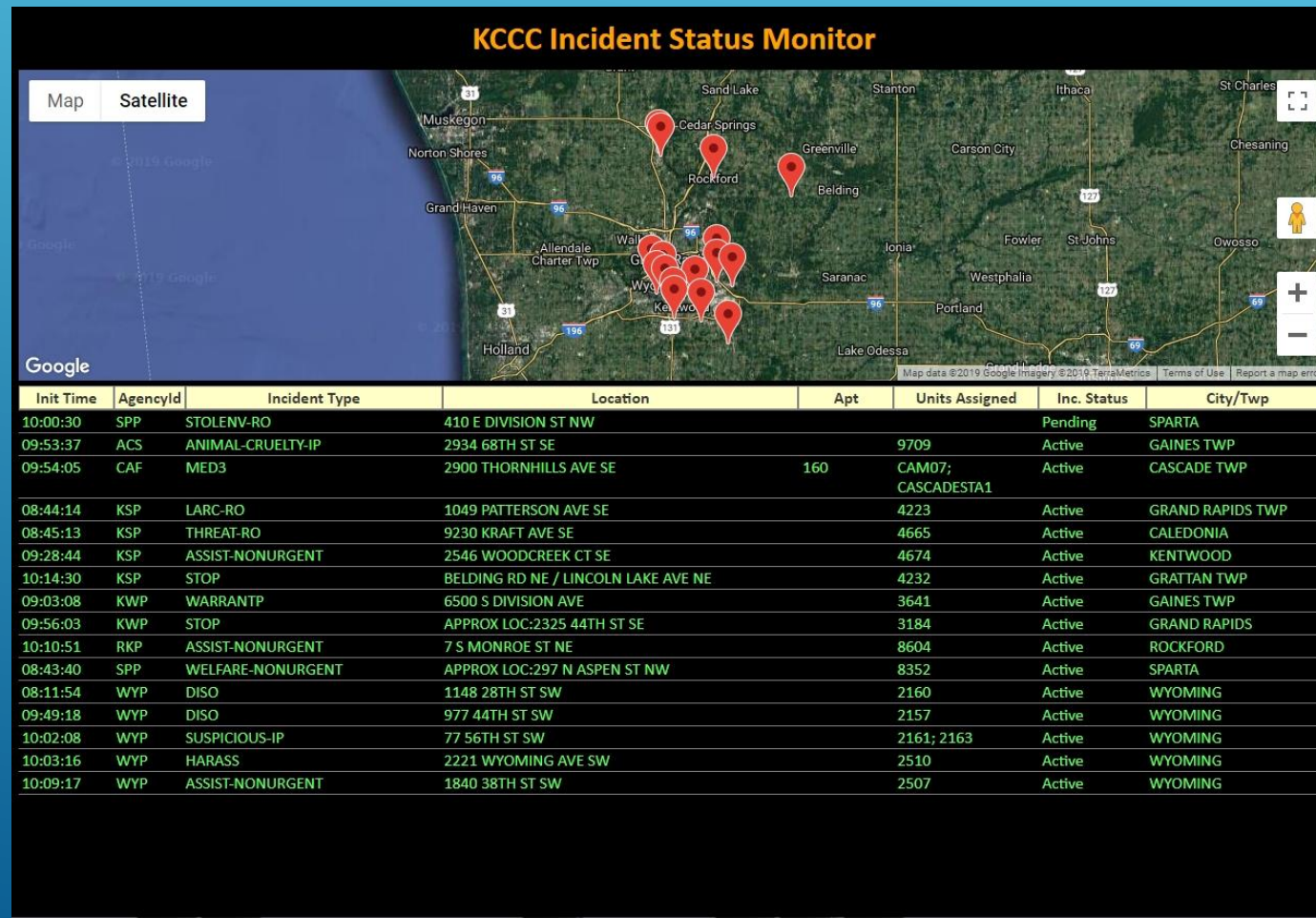
Consumers Energy Outage Map





# EMERGENCY MANAGEMENT

## 911 Data Shared for Emergency Managers or Command Awareness: Kent County 911 Incident Status Monitor (ISM)






# EMERGENCY MANAGEMENT

## 911 Data Shared for Emergency Managers or Command Awareness: Kent County 911 Incident Status Monitor (ISM)

**KCCC Incident Status Monitor**

Map Satellite



Kraft Meadows Middle School

Map data ©2019 Google Imagery ©2019 DigitalGlobe, Kent County Terms of Use Report a map error

Init Time	AgencyId	Incident Type	Location	Apt	Units Assigned	Inc. Status	City/Twp
10:19:07	RKP	ASSIST-NONURGENT	7 S MONROE ST NE			Pending	ROCKFORD
09:53:37	ACS	ANIMAL-CRUELTY-IP	2934 68TH ST SE		9709	Active	GAINES TWP
08:44:14	KSP	LARC-RO	1049 PATTERSON AVE SE		4223	Active	GRAND RAPIDS TWP
08:45:13	KSP	THREAT-RO	9230 KRAFT AVE SE		4665	Active	CALEDONIA
		Date Commented	Comments				
		03/25/2019 08:46:15	< ALL SET NO CHECKS NEEDED >				
09:28:44	KSP	ASSIST-NONURGENT	2546 WOODCREEK CT SE		4674	Active	KENTWOOD
09:03:08	KWP	WARRANTP	6500 S DIVISION AVE		3641	Active	GAINES TWP
09:56:03	KWP	STOP	APPROX LOC:2325 44TH ST SE		3184	Active	GRAND RAPIDS
10:10:51	RKP	ASSIST-NONURGENT	7 S MONROE ST NE		8604	Active	ROCKFORD
10:00:30	SPP	STOLENV-RO	410 E DIVISION ST NW		8352	Active	SPARTA
08:11:54	WYP	DISO	1148 28TH ST SW		2160	Active	WYOMING
09:49:18	WYP	DISO	977 44TH ST SW		2157	Active	WYOMING
10:02:08	WYP	SUSPICIOUS-IP	77 56TH ST SW		2161; 2163	Active	WYOMING
10:03:16	WYP	HARASS	2221 WYOMING AVE SW		2510	Active	WYOMING
10:09:17	WYP	ASSIST-NONURGENT	1840 38TH ST SW		2507	Active	WYOMING

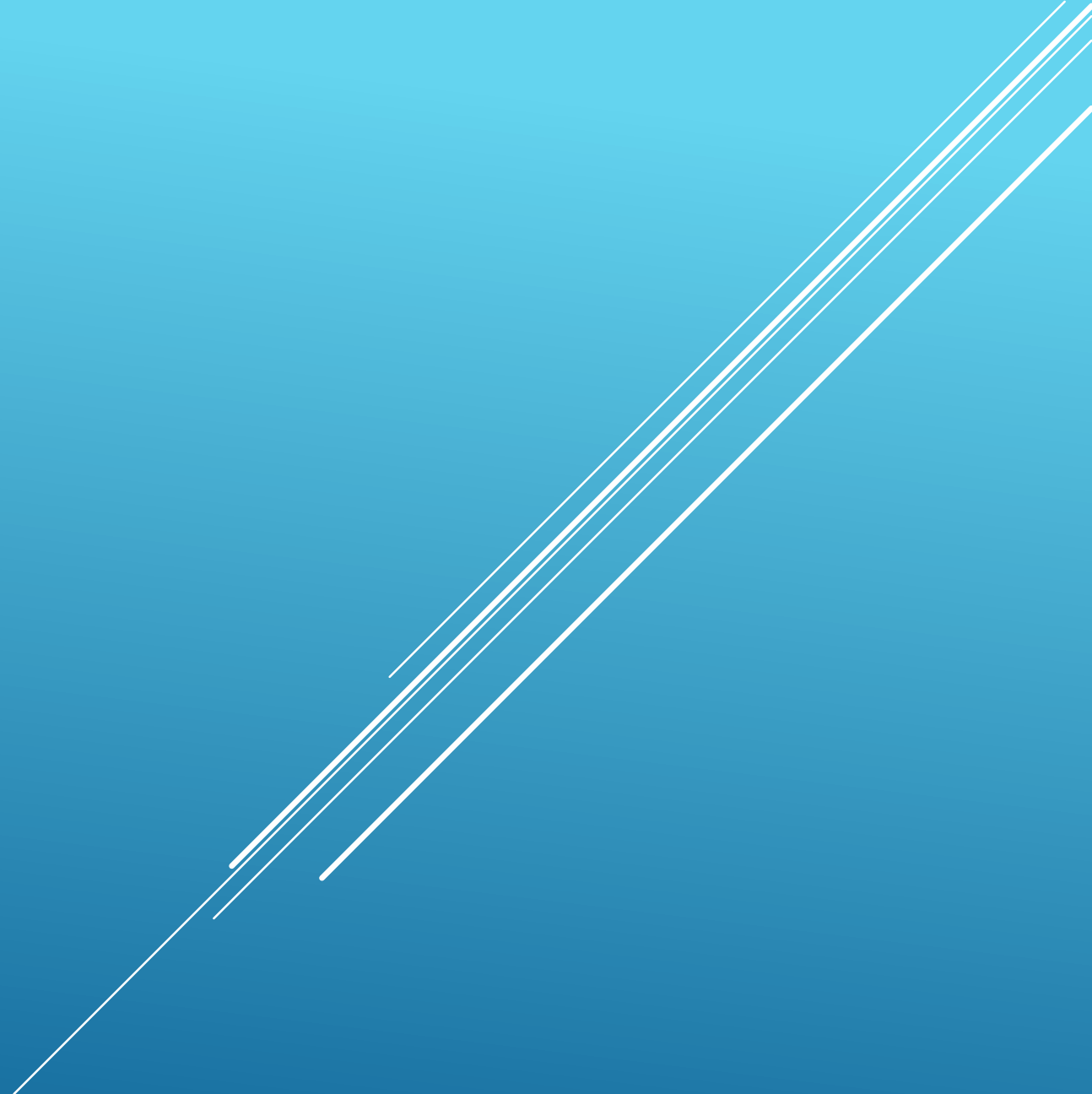
# WEATHER

Situational Awareness / Radar Images

GRLevel3

RadarScope

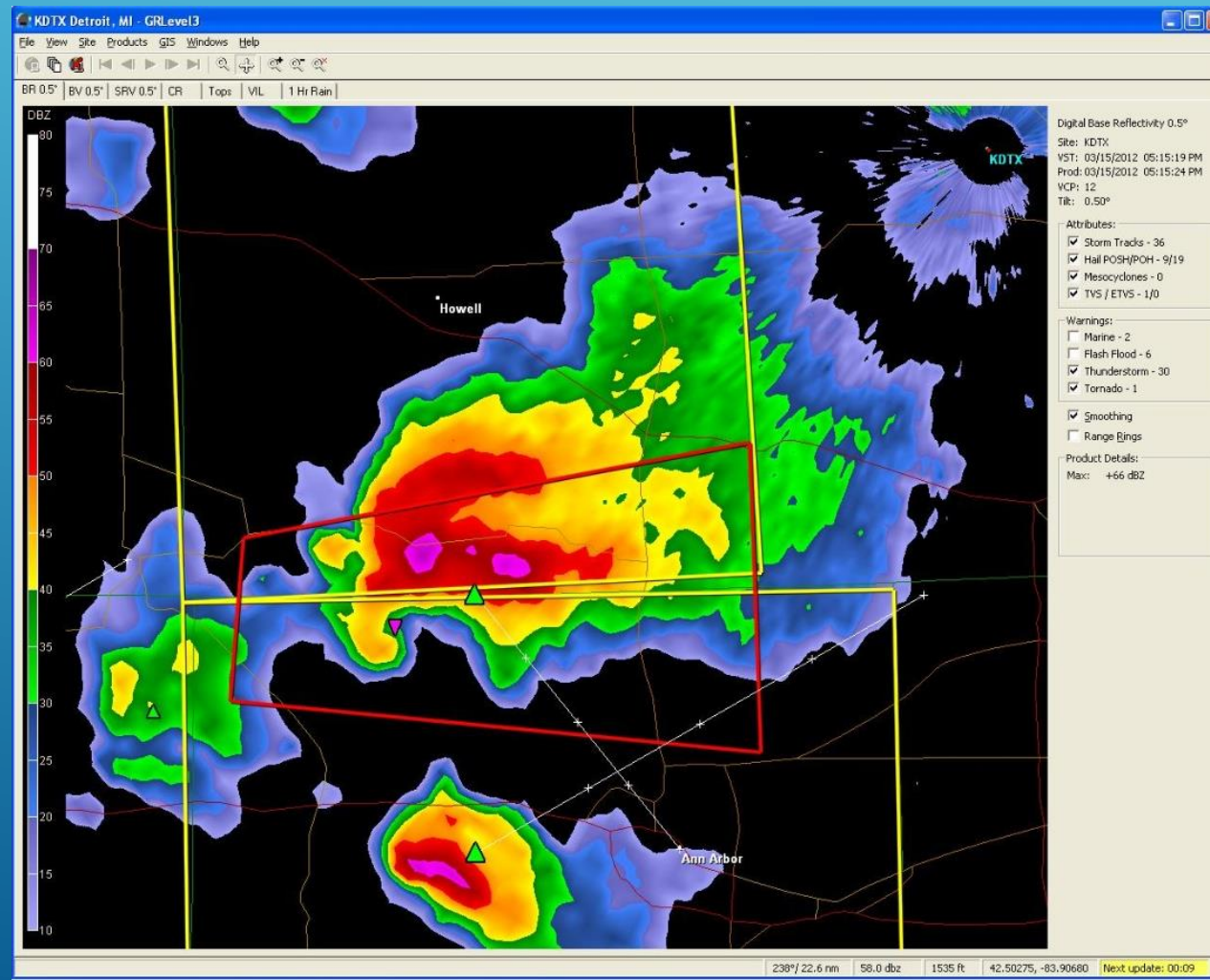
NWSChat



# WEATHER

## Situational Awareness / Radar Images

### GRLevel3

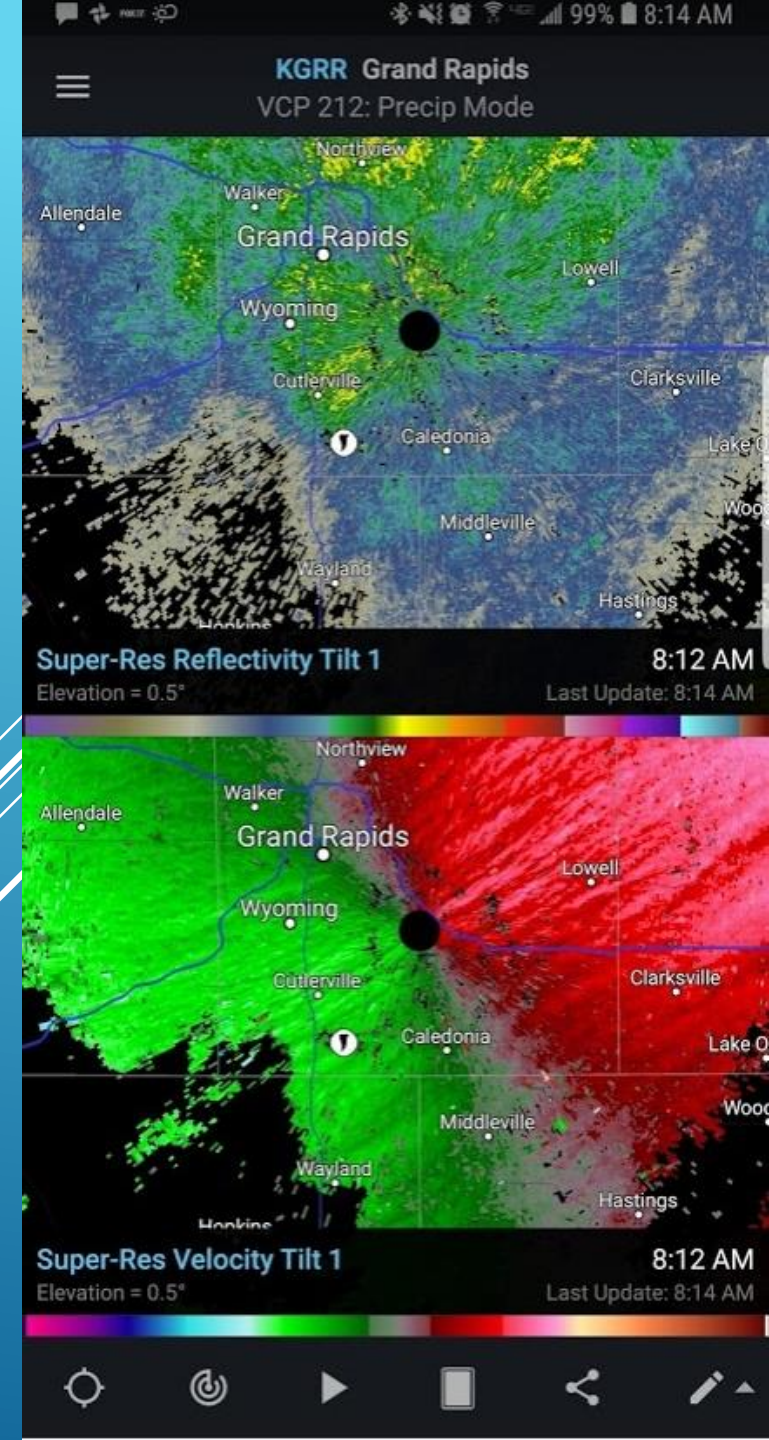
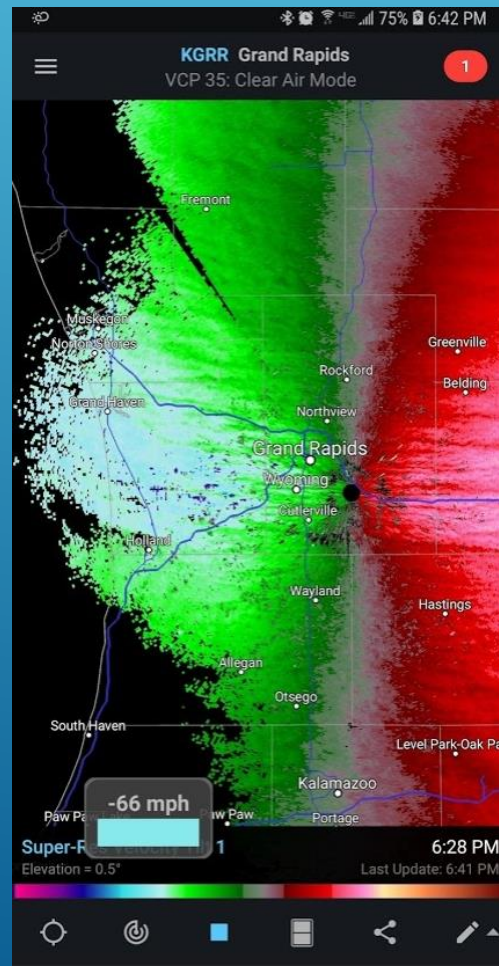




# WEATHER

## Situational Awareness / Radar Images

### RadarScope



# WEATHER

## Situational Awareness / Radar Images

### NWSChat

The screenshot displays the NWSChat Live application interface. On the left, a 'Buddies' list shows various users, including 'GRR Chat Group' and 'NWSChat Admin Team'. The main area features a 'Map Panel' with a weather radar image of the Great Lakes region, showing precipitation intensity in shades of blue and green. The map includes labels for cities like Chicago, Detroit, and Toronto, and bodies of water like Lake Michigan and Lake Erie. Below the map is a chat window with a message history. The chat log shows a series of automated messages from 'nwsbot' providing links to various weather reports and discussions. On the right side of the chat window, a 'Layers Control' panel lists different map layers such as 'Base Layer', 'Satellite', and 'Precip/RADAR'. At the bottom right, a '19 people in room' list shows the names of participants in the chat.

**NWSChat Live**

Actions Available

Buddies

- GRR Chat Group
  - kd8dlr-kcraces
  - wins-rdale
  - kb8zqz-boone
  - newaygo-skywarn-ec-tim
  - em-derek.r.schroeder
  - Fox 17-Candace Monacelli
  - WWMT-Randi
- NWSChat Admin Team
  - nwsbot
  - Matthew Duplantis
  - Shane Searcy (Admin Team)

**Map Panel**

Map Valid: 11:10 AM Tools Opacity

**Layers Control**

- Base Layer
  - Blank
  - ESRI Topo
- Satellite
  - GOES Water
  - GOES West V
  - GOES East V
  - GOES Visible
  - GOES IR
- Precip/RADAR
  - NMQ Q2 3 De
  - NMQ Q2 2 De

Help All Chats grrchat

Clear Room Log Print Log View As HTML Hide NWSBot Mute Sounds A A

Message

(24 Mar 2:04 PM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(24 Mar 3:29 PM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(24 Mar 5:37 PM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for GRAND RAPIDS](#)

(24 Mar 5:37 PM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for KALAMAZOO](#)

(24 Mar 5:37 PM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for LANSING](#)

(24 Mar 5:37 PM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for MUSKEGON](#)

(24 Mar 7:57 PM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(24 Mar 8:00 PM) nwsbot: ----- Mar 25, 2019 [UTC] -----

(24 Mar 11:49 PM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(1:18 AM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for MUSKEGON](#)

(1:18 AM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for GRAND RAPIDS](#)

(1:18 AM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for KALAMAZOO](#)

(1:18 AM) nwsbot: GRR issues [Daily Climate Report \(CLI\) for LANSING](#)

(3:15 AM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(6:15 AM) nwsbot: GRR issues [Hazardous Weather Outlook \(HWO\)](#)

(6:38 AM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

(10:42 AM) nwsbot: GRR issues [Area Forecast Discussion \(AFD\)](#)

Chatroom Bookmarks

Chatrooms

19 people in room

- em-derek.r.schroeder
- hamdtx-robert.a.hoy
- Ingham-EM-RDale
- law-matt.groesser
- media-candace.l.monacelli
- media-mark.torregrossa
- media-melanie.steinberg
- media-randi.m.burns
- media-ty.w.shesky
- nws-lwx-kyle.brown
- nwsapx-michael.kurz
- nwsAPX-pat.bak
- nwsbot
- nwsdtx-david.gurney
- nwsdtx-sara.pampreen
- nwsGRR-andrew.dixon
- nwsgr-mike.sutton
- nwsgr-wayne.hoepner
- nwsmt-keith.white

Send

For access to  
NSWChat, contact  
your local National  
Weather Service  
Office and your  
Emergency Manager



# CAD TO CAD INTERFACE OR SHARED CAD

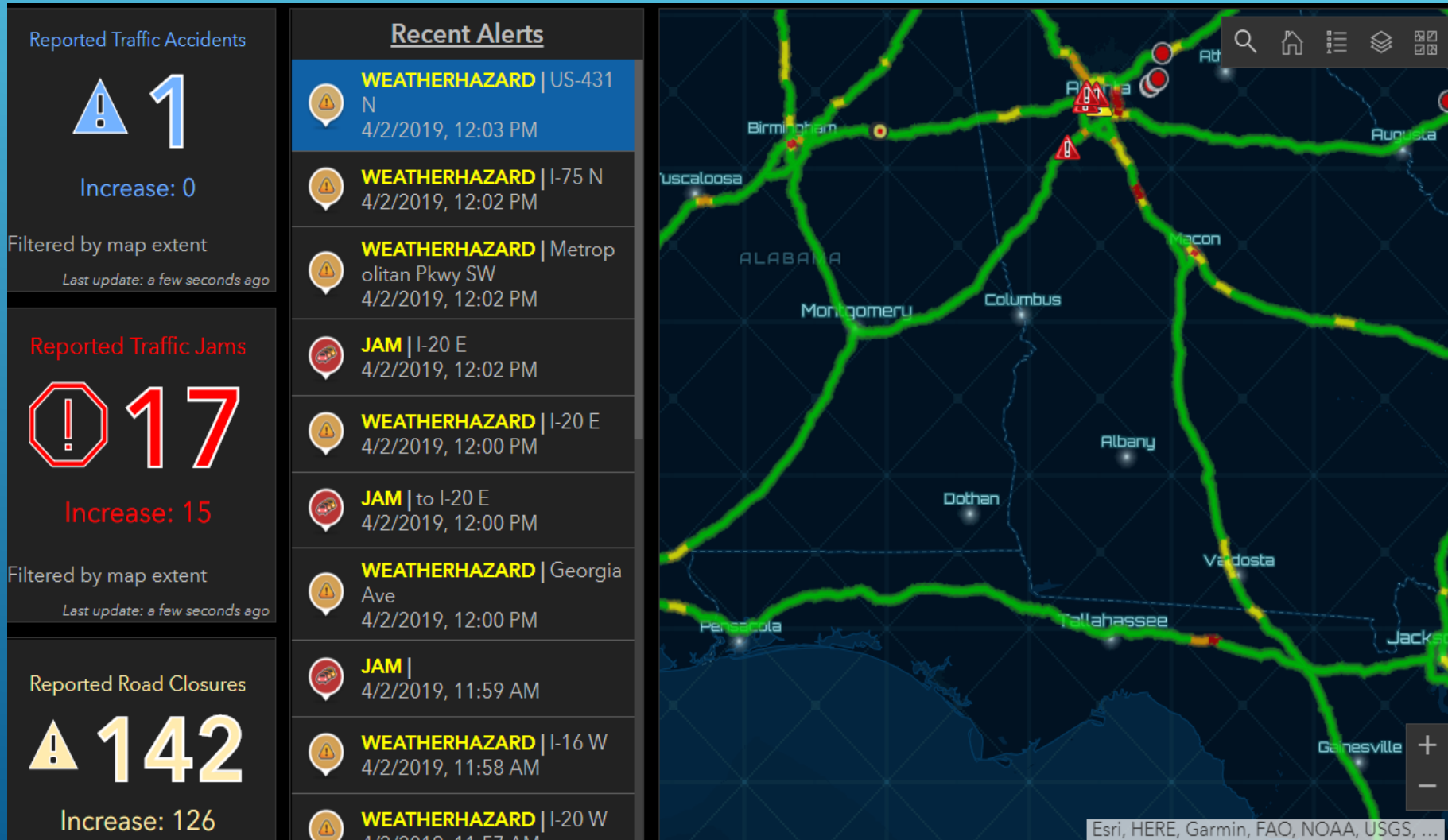
**Incident or Unit Information Shared Between PSAPs:**

**Eaton County Interface with Clinton County**

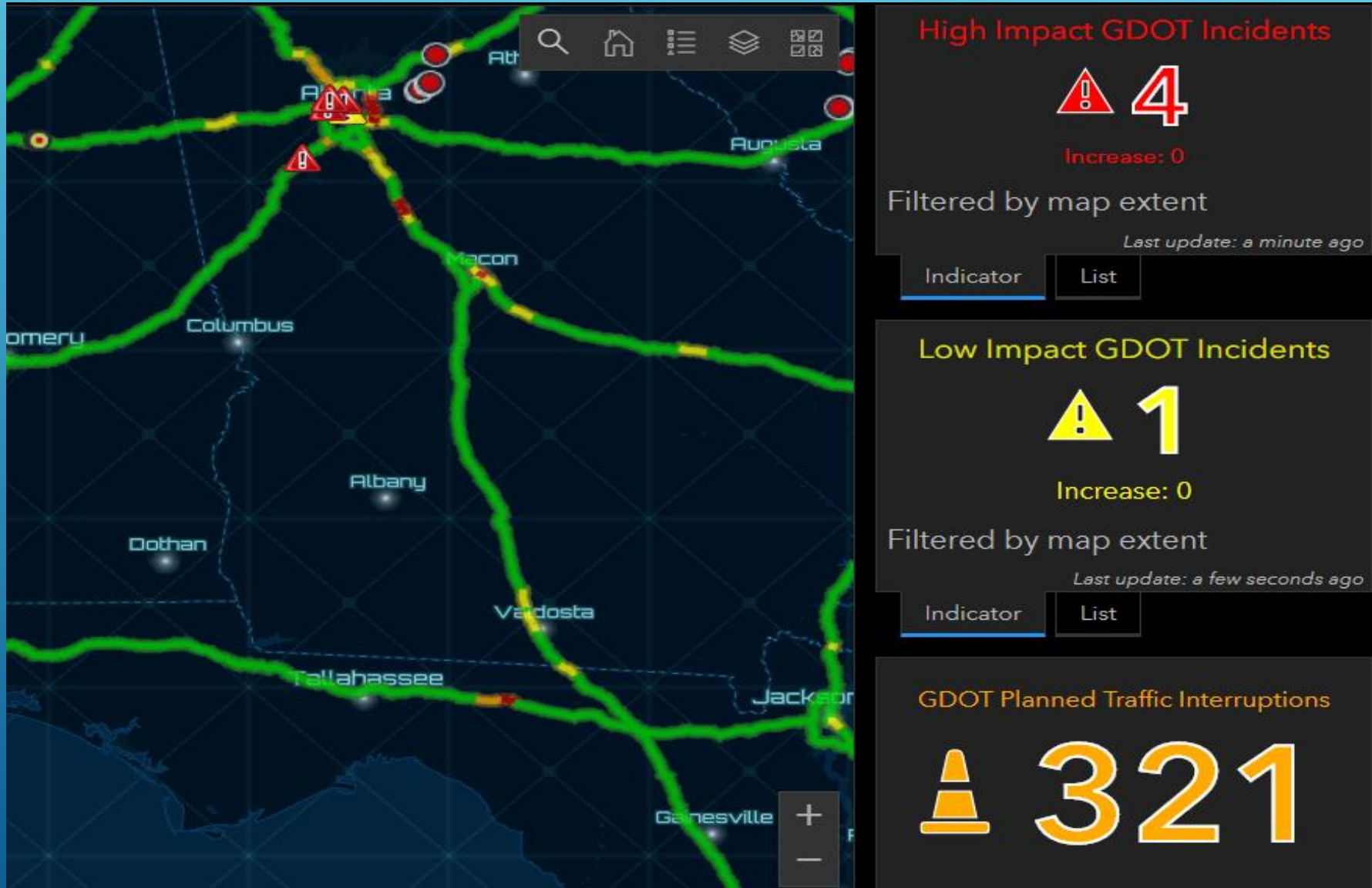
**Kent County Shared CAD with Grand Rapids**




# WAZE INCIDENT DASHBOARD



# DOT INCIDENT DASHBOARD

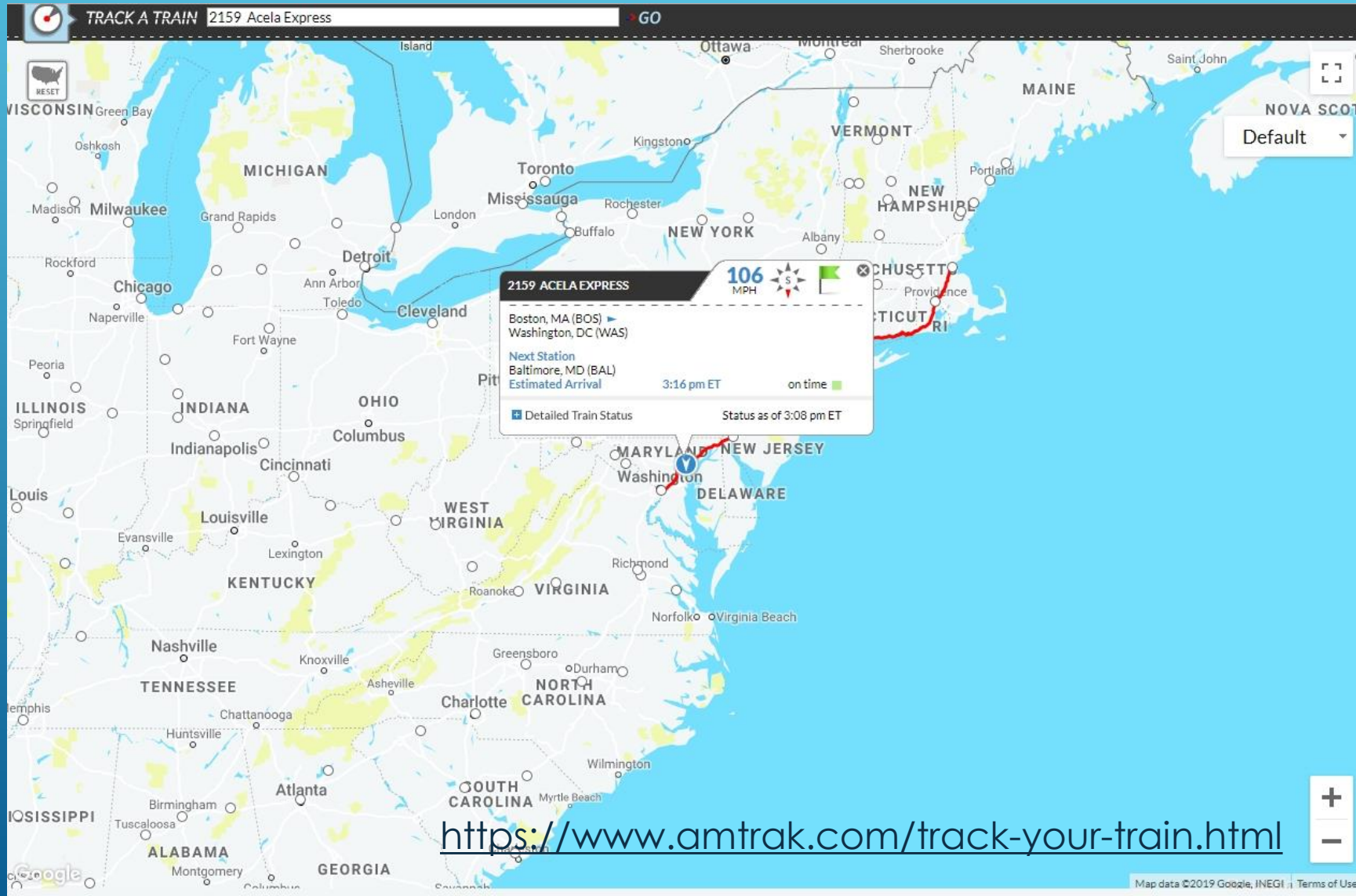


# WAZE INTEGRATED DASHBOARD

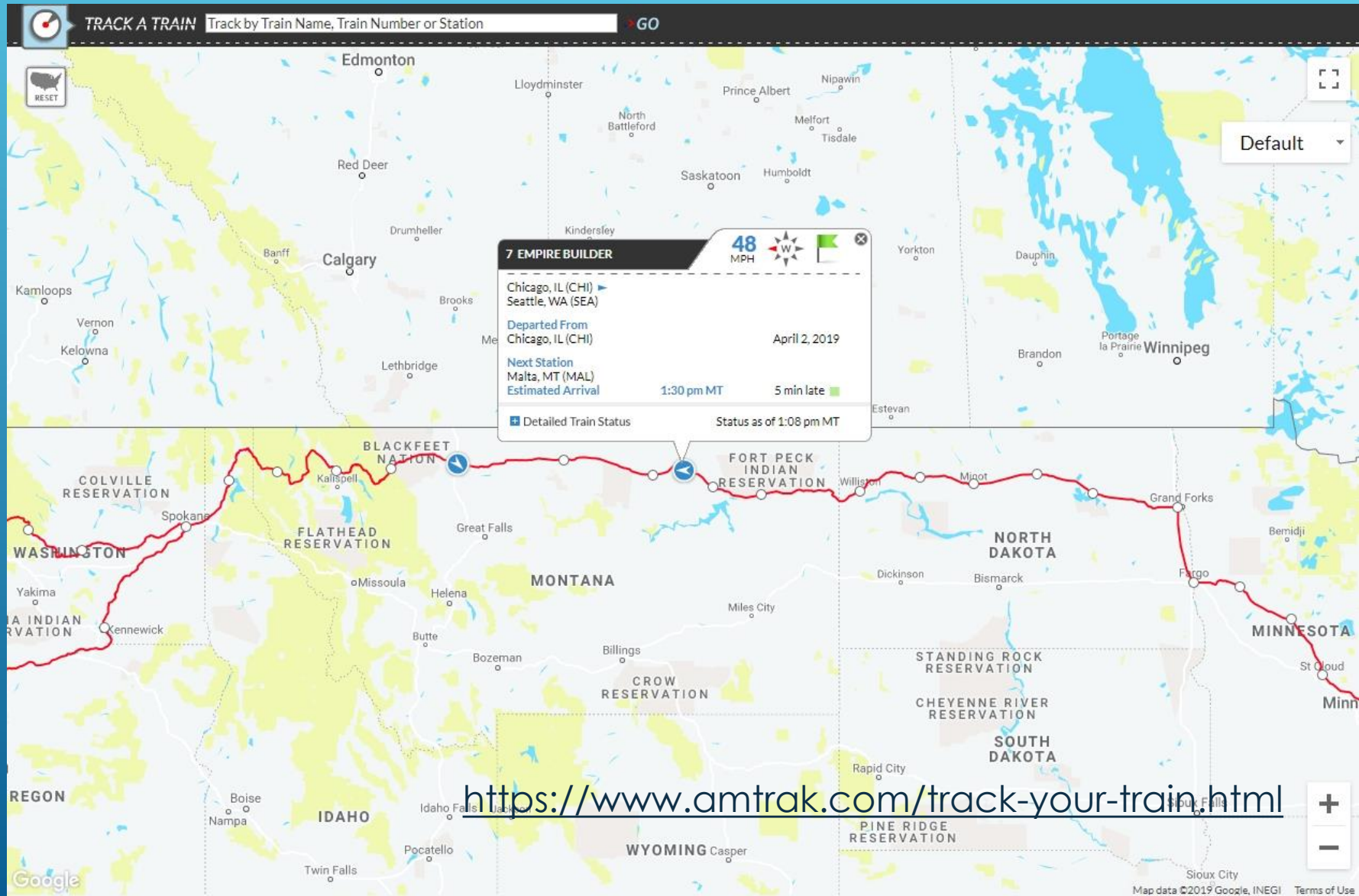
- ▶ User reported information assists with detection of incidents
  - ▶ Filtered based on accuracy ratings
  - ▶ Data is pulled in to the DOT site
- 
- Several white lines of varying lengths and slopes are positioned in the bottom right corner of the slide, creating a modern, abstract graphic element.



# AMTRAK

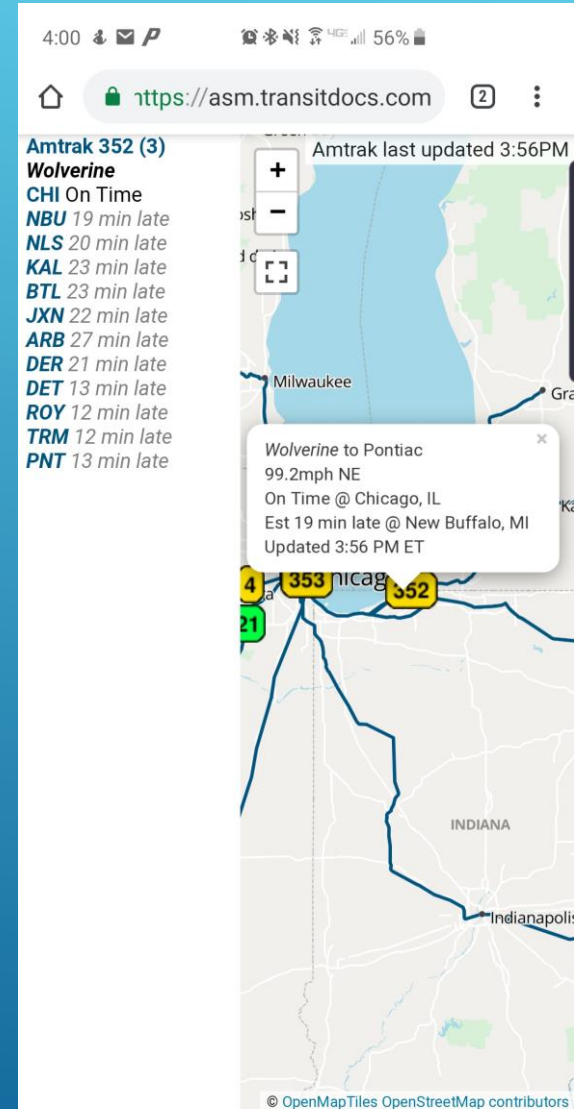
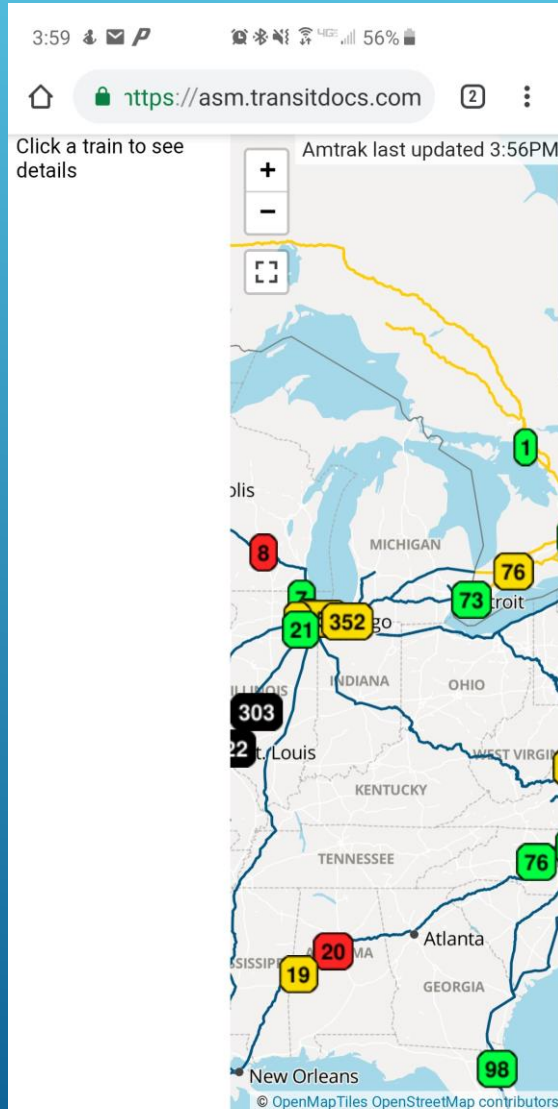


# AMTRAK



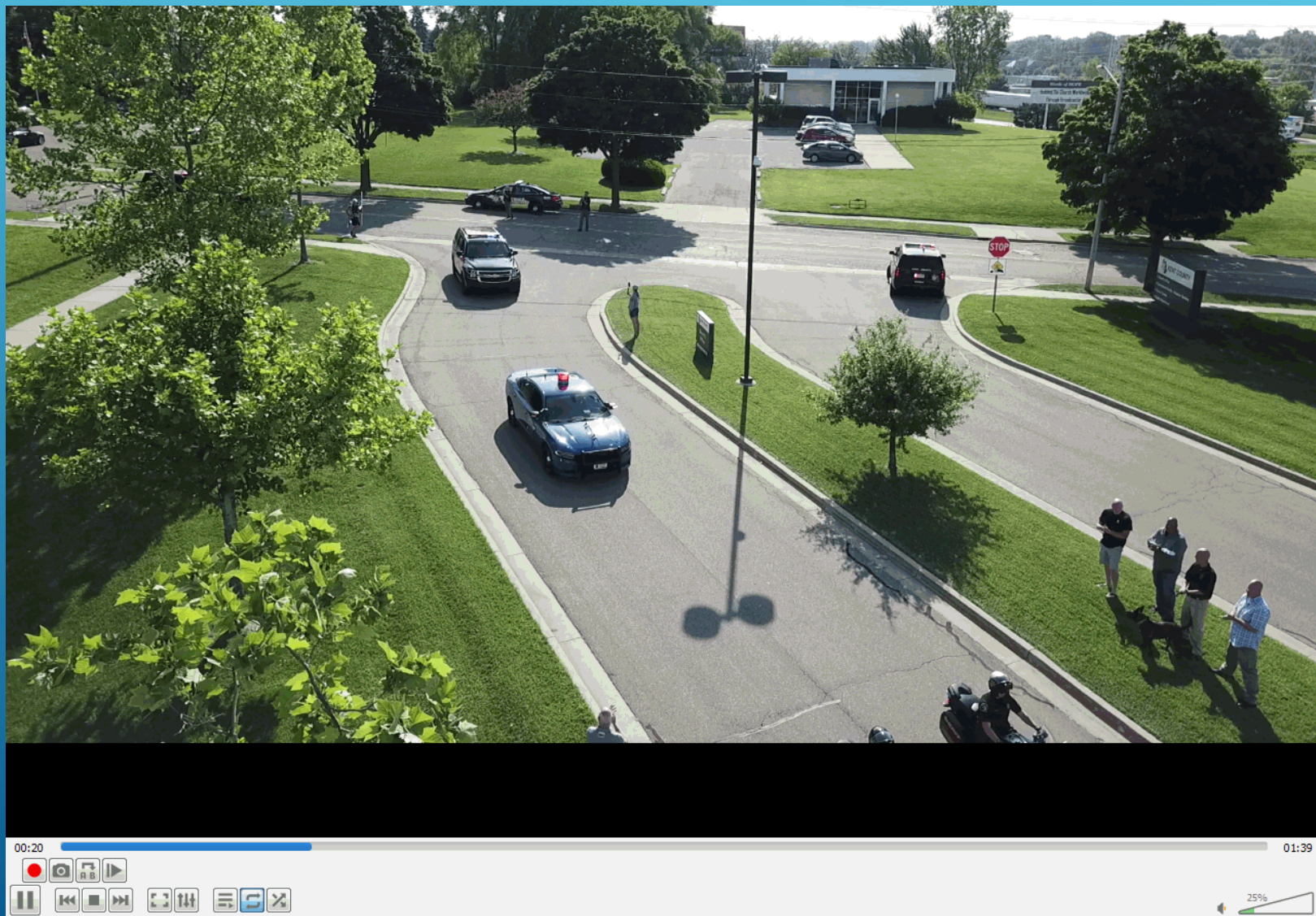
# AMTRAK

<https://asm.transitdocs.com/map>





# DRONES



# ON DEMAND MULTIMEDIA

Carbyne

RapidDeploy

Rave/Smart911

911eye

# ON DEMAND MULTIMEDIA

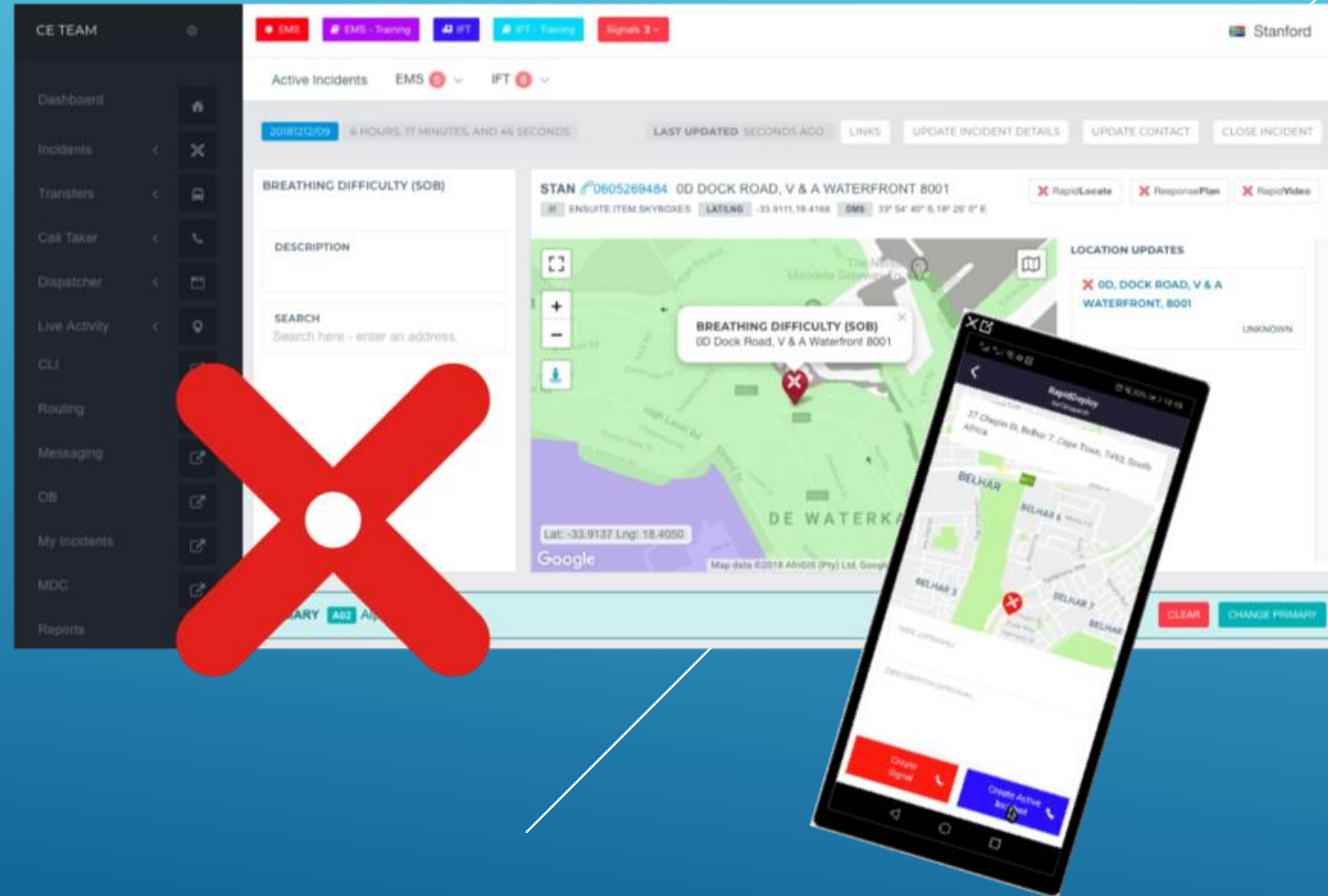
Carbyne c-Lite/c-Events





# ON DEMAND MULTIMEDIA

RapidDeploy



# ON DEMAND MULTIMEDIA

## Rave Mobile Safety – Smart911 Chat Video

The screenshot displays the Rave Mobile Safety interface, which includes a map, a sidebar with ticket lists, and several floating windows for detailed information and communication.

**Top Bar:** Shows navigation icons and status indicators: 55 Total (22 New), 10 Most Recent Per WS, 2 Unanswered Panic Calls, 1 Not Mapped, and 2 Open Chats. The current view is for Ticket 343, with a "BACK TO ALL" button.

**Map:** A map of Greenville, AL, showing the location of Greenville Middle School - Main Building at 300 Overlook Rd. A red fire icon is placed on the map near the school.

**Tickets Sidebar:** Lists 55 total tickets. The first ticket is a SMART911 call from 17:51:19 1/4/2016, Ticket: NTJKWG1JWG8, Caller: 508-555-1212, Lat/Long/Acc: 39.130756/-77.23478/5m, Workstation: 23459. Below it is a "PANIC BUTTON" for a Fire Emergency at Greenville Middle School, Ticket: 343, Caller: Joe Member, 508-555-1212, Lat/Long/Acc: 39.130756/-77.23478/5m, Workstation: 23459. The next ticket is a "911 CALL - NOT MAPPED" from the same time and location. Below that is another "PANIC BUTTON" for a Medical Emergency, Ticket: NTJKWG1JWG8, Caller: 555-555-5555, Lat/Long/Acc: 39.130756/-77.23478/5m, Workstation: 23459. The final ticket is another SMART911 call from the same time and location, Ticket: NTJKWG1JWG8, Caller: 508-555-1244, Workstation: 23459.

**Greenville Middle School - Main Building Window:** Displays details for the selected location: 300 Overlook Rd, Greenville, AL 36037. Building Name/Number: Main Building, Building NickName: Main, Number of Floors: 4, Avg. # of Occupants: 100, Year Built: 2001, Exterior Color: Maroon, Siding: Brick, Gate / Access Code: 123456, Knox Box? Yes, Keyholder: Sam Smith, 123 Main St., Anytown, MI 48859, Keyholder Phone: 555-555-5555, Keyholder Email: ssmith@columbia.edu, Floor Plans: FIRST FLOOR, SECOND FLOOR, Other Access Info: Lorem ipsum dolor sit amet, consectetur sed diam eusimond dolor amet, sed diam ipsum.

**Chat Window:** Shows a chat conversation with 555-555-5555. The message history includes: "There's a fire at the middle school and surrounding areas and buildings. SEND HELP." (2024871290 - 09/14/2016 10:32:27), "Units are on their way. I am going to send you a request to film the incident. It will help us with premise details." (02/12/2019 10:33:09), and "You sent a video stream request to 555-555-5555. It will appear on the map as soon as the caller initiates." (02/12/2019 10:31:09). The chat input field shows "New Message..." and a "SEND" button.

**Video Window:** A small video player showing a live stream of a fire at the school, with a "LIVE" indicator and a timestamp of "Sent 2/9/2019, 12:17 PM".

**Bottom Bar:** Includes "CALLER TOOLS" and "FACILITY TOOLS" sections with various icons for communication and location services.

# ON DEMAND MULTIMEDIA

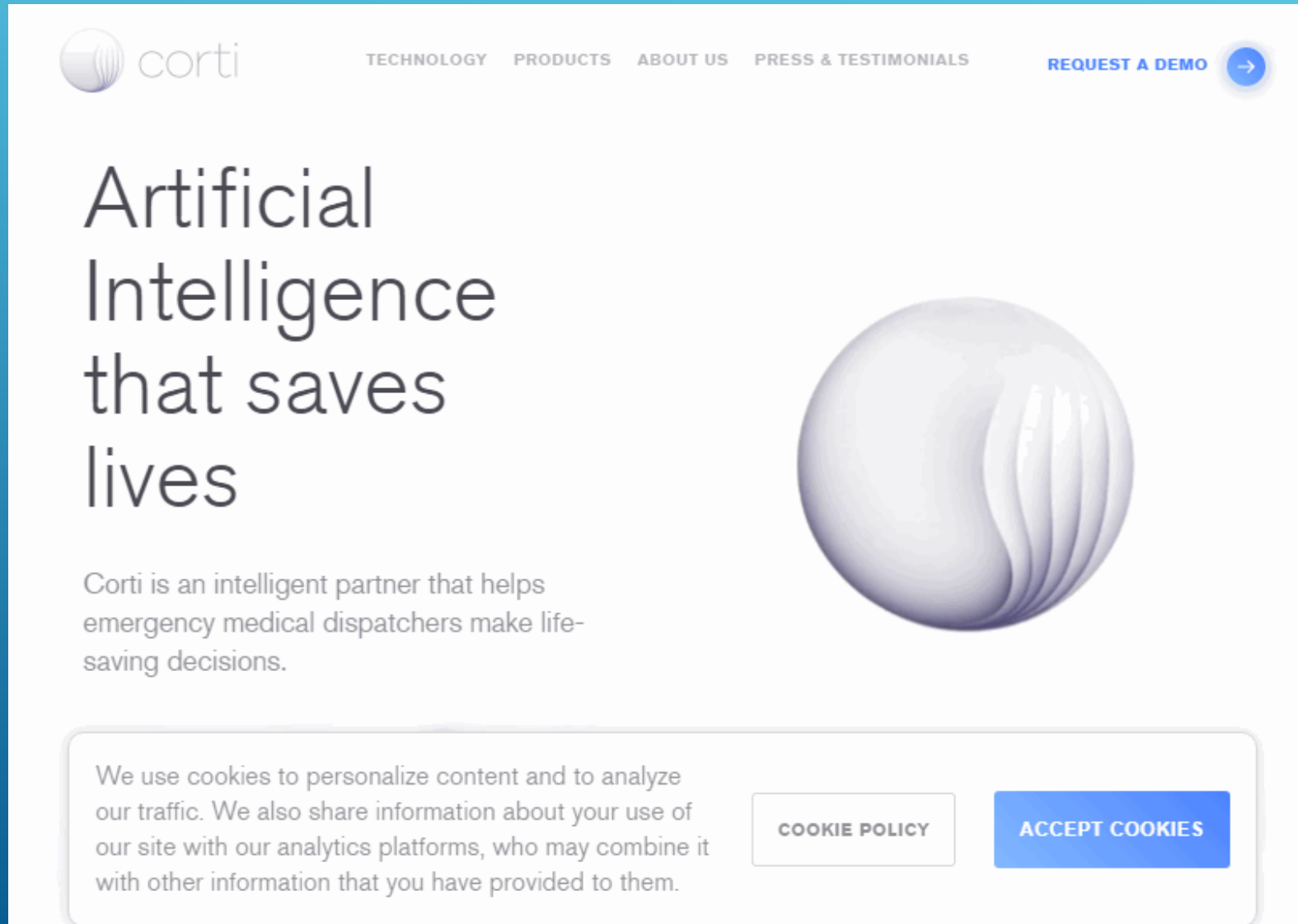
911eye






# ARTIFICIAL INTELLIGENCE

<https://corti.ai/>



The screenshot shows the homepage of the Corti AI website. The header features the Corti logo on the left, a navigation menu with links for TECHNOLOGY, PRODUCTS, ABOUT US, and PRESS & TESTIMONIALS in the center, and a REQUEST A DEMO button with a right arrow icon on the right. The main content area has a large heading 'Artificial Intelligence that saves lives' on the left and a large, stylized sphere graphic on the right. Below the heading, a paragraph states: 'Corti is an intelligent partner that helps emergency medical dispatchers make life-saving decisions.' At the bottom, a cookie consent banner is displayed, containing a text block explaining cookie usage, a COOKIE POLICY button, and an ACCEPT COOKIES button.

 TECHNOLOGY PRODUCTS ABOUT US PRESS & TESTIMONIALS REQUEST A DEMO →

## Artificial Intelligence that saves lives

Corti is an intelligent partner that helps emergency medical dispatchers make life-saving decisions.


We use cookies to personalize content and to analyze our traffic. We also share information about your use of our site with our analytics platforms, who may combine it with other information that you have provided to them.

[COOKIE POLICY](#) [ACCEPT COOKIES](#)

# MAKING SENSE OUT OF IT ALL

- ▶ What's available: [www.appcomm.org](http://www.appcomm.org)
  - ▶ Regulation
  - ▶ Standards
  - ▶ Use cases
    - ▶ Motorcade Example
    - ▶ Wyoming Homicide / Pursuit
    - ▶ Clinton County / Delta Twp Crash – CAD-To-CAD
- 
- A series of three parallel white diagonal lines extending from the bottom right towards the top right of the slide.

# QUESTIONS?

- ▶ [Marmitage@EatonCounty.org](mailto:Marmitage@EatonCounty.org)
  - ▶ [Matt.Groesser@KentCountyMI.gov](mailto:Matt.Groesser@KentCountyMI.gov)
  - ▶ [McConnonM@Michigan.gov](mailto:McConnonM@Michigan.gov)
- 
- A series of three parallel white lines of varying lengths, slanted diagonally upwards from left to right, located in the bottom right corner of the slide.